

STIC Search Report

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STIC Database Tracking Number: 187330

TO: Marcela Cordero Garcia

Location: 3a30 / 3c18

Art Unit: 1654

Wednesday, April 26, 2006

Case Serial Number: 10/722843

From: Noble Jarrell

Location: Biotech-Chem Library

Rem 1B71

Phone: 272-2556

Noble.jarrell@uspto.gov

Search Notes

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SEARCH REQUEST FORM

Requester's Full Name: MARCELA M CORDERO GARCIA Examiner #: 80381 Date: 4/20/06
Art Unit: 1654 Phone Number: 2-2939 Serial Number: 10/722,843
Location (Bldg/Room#): REM3A30 (Mailbox #): REM3C18 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Date: _____

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

PLEASE SEARCH A PEPTIDE COMPRISING

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THANKS,

[Signature]

STAFF USE ONLY

Searcher: noble

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: 4/26/06

Date Completed: 4/26/06

Searcher Prep & Review Time: 10

Online Time: 16

Type of Search

____ NA Sequence (#)

____ AA Sequence (#)

1 Structure (#)

✓ Bibliographic

____ Litigation

____ Fulltext

____ Other

Vendors and cost where applicable

✓ STN _____ Dialog

____ Questel/Orbit _____ Lexis/Nexis

____ Westlaw _____ WWW/Internet

____ In-house sequence systems

____ Commercial _____ Oligomer _____ Score/Length

____ Interference _____ SPDI _____ Encode/Transl

____ Other (specify)

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DICTIONARY FILE UPDATES: 25 APR 2006 HIGHEST RN 881879-55-6

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L14 156 SEA FILE=REGISTRY ABB=ON PLU=ON PHSCN/SQSP

=> b hcap

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FILE COVERS 1907 - 26 Apr 2006 VOL 144 ISS 18
FILE LAST UPDATED: 25 Apr 2006 (20060425/ED)

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> d bib abs fhitseq hitrn retable l17 tot

L17 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:610128 HCAPLUS
 DN 141:157478
 TI Peptides which target tumor and endothelial cells, compositions and uses thereof
 IN Allan, Amy L.; Yoon, Won Hyung; Gladstone, Patricia L. ; Ternansky, Robert J.; Parry, Graham; Donate, Fernando; Mazar, Andrew
 PA Attenuon, Llc, USA
 SO PCT Int. Appl., 117 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2004063213	A2	20040729	2003WO-US37895	20031125 <--
	WO2004063213	A3	20050303		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	US2004162239	A1	20040819	2003US-0723144	20031125 <--
	US2005020810	A1	20050127	2003US-0722843	20031125 <--
	EP---1569678	A2	20050907	2003EP-0796483	20031125 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR2003016550	A	20051004	2003BR-0016550	20031125 <--
	NO2005003112	A	20050805	2005NO-0003112	20050624 <--
PRAI	2002US-429174P	P	20021125	<--	
	2003US-475539P	P	20030602	<--	
	2003WO-US37895	W	20031125		

OS MARPAT 141:157478

AB The invention relates generally to peptide analogs of Ac-PHSCN-NH₂ which target tumor and endothelial cells and have antitumor, antiangiogenic and antimetastatic activity and to methods for their synthesis and use in pharmaceutical compns. for treating, preventing and detecting diseases characterized by tumor growth, metastasis and angiogenesis. The peptide analogs may serve, inter alia, as carriers of radioactivity, PET-active compds., toxins, fluorescent mols. and PEG mols. Peptides R1[(NHCHR₂CO)0-1(X₁)0-100]m-X₂-X₃-X₄-X₅-X₆-[(X₇)0-1(NHCHR₃CO)0-1]nNR₄R₅ [R₁ is (un)substituted acyl, alkyl, cycloalkyl or imino, or acyl chelate; R₂ is substituted alkyl; R₄, R₅ are (un)substituted alkyl; X₁, X₇ are NH(CH:CH)1-6CO, NH(CH₂)1-6CO, NHCHMeCO; X₂-X₆ are α-amino acids which are defined; m, n are 0 or 1, with the proviso that R₁ is not acetyl when R₄ and R₅ are H and m and n are 0] are claimed. Thus, Ac-Pro-His-Ser-Cys(Ac)-Asn-OH was prepared by the solid-phase method and coupled to doxorubicin hydrochloride to afford the conjugate.

IT 729594-60-9P

RL: DGN (Diagnostic use); PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of peptides which target tumor and endothelial cells)

RN 729594-60-9 HCAPLUS

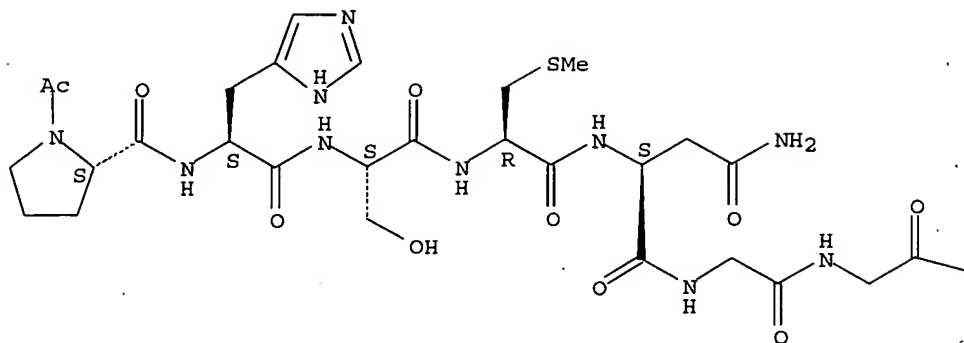
CN L-Lysinamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-S-methyl-L-cysteinyl-L-asparaginylglycylglycyl- (9CI) (CA INDEX NAME)

NTE modified

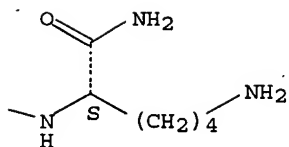
SEQ 1 PHSCNGGK

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



IT INDEXING IN PROGRESS

IT 729594-60-9P

RL: DGN (Diagnostic use); PAC (Pharmacological activity); RCT (Reactant);
 SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
 study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (preparation of peptides which target tumor and endothelial cells)

IT 262438-43-7DP, analogs 729594-61-0P 729594-62-1P

729594-63-2P 729594-64-3P 729594-65-4P

729594-66-5P 729594-67-6P 729594-68-7P

729594-69-8P 729594-70-1P 729594-71-2P

729594-72-3P 729594-73-4P 729594-74-5P

729594-75-6P 729594-76-7P 729594-77-8P

729594-78-9P 729594-79-0P 729594-80-3P

729594-81-4P 729594-82-5P 729594-83-6P

729594-84-7P 729594-85-8P 729594-86-9P

729594-87-0P 729594-88-1P 729594-89-2P

729594-90-5P 729594-91-6P 729594-92-7P

729594-93-8P 729594-94-9P 729594-95-0P

729594-96-1P 729594-97-2P 729594-98-3P

729594-99-4P 729595-00-0P 729595-01-1P

729595-02-2P 729595-04-4P 729595-05-5P

729595-06-6P 729595-07-7P 729595-08-8P

729595-09-9P 729595-14-6P 730960-54-0P

731003-01-3DP, Indium complexes 731003-01-3P

731003-02-4P

RL: DGN (Diagnostic use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of peptides which target tumor and endothelial cells)

IT 729595-16-8D, resin-bound 729595-17-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of peptides which target tumor and endothelial cells)

IT 729595-10-2DP, resin-bound 729595-11-3DP, resin-bound

729595-12-4DP, resin-bound 729595-13-5DP, resin-bound

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of peptides which target tumor and endothelial cells)

L17 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:467702 HCAPLUS

DN 141:33798

TI Peptides which inhibit angiogenesis, cell migration, cell invasion and cell proliferation, their preparation, and compositions and therapeutic uses thereof

IN Allan, Amy L.; Donate, Fernando; Hopkins, Stephanie A.; Gladstone, Patricia L.; Mazar, Andrew; O'Hare, Sean M.; Parry, Graham; Plunkett, Marian L.; Ternansky, Robert J.; Yoon, Won Hyung

PA Attenuon, LLC, USA

SO PCT Int. Appl., 88 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2004047771	A2	20040610	2003WO-US38175	20031125 <--
	WO2004047771	A3	20050915		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	US2004162239	A1	20040819	2003US-0723144	20031125 <--
	US2005020810	A1	20050127	2003US-0722843	20031125 <--
	BR2003016523	A	20051018	2003BR-0016523	20031125 <--
	EP---1594521	A2	20051116	2003EP-0812058	20031125 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	NO2005003111	A	20050824	2005NO-0003111	20050624 <--
PRAI	2002US-429174P	P	20021125	<--	
	2003US-475539P	P	20030602	<--	
	2003WO-US38175	W	20031125		
OS	MARPAT 141:33798				

AB The invention discloses peptides which inhibit angiogenesis, cell migration, cell invasion and cell proliferation, as well as methods of making the peptides, pharmaceutical compns. containing the peptides, and methods of using the peptides and pharmaceutical compns. to treat diseases associated with aberrant vascularization, e.g. cancer.

IT 701200-82-0P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); RACT (Reactant or reagent); USES (Uses)
 (peptide inhibitors of angiogenesis, cell migration, cell invasion and
 cell proliferation, preparation, and compns. and therapeutic uses)

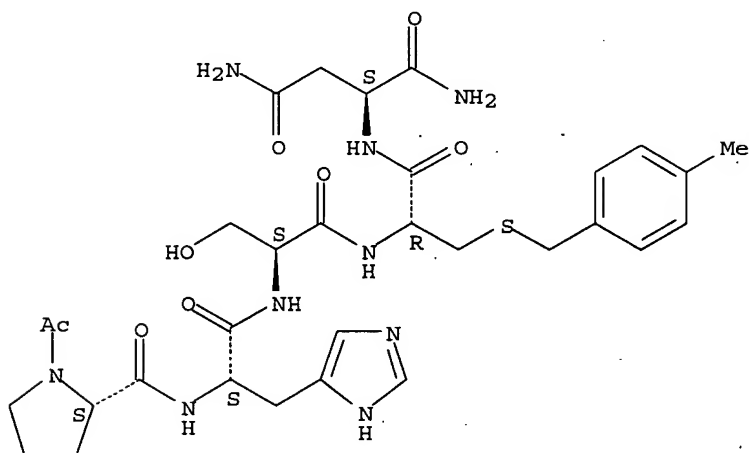
RN 701200-82-0 HCAPLUS

CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-S-[(4-
 methylphenyl)methyl]-L-cysteiny- (9CI) (CA INDEX NAME)

NTE modified

SEQ 1 PHSCN

Absolute stereochemistry.



IT INDEXING IN PROGRESS

IT 701200-82-0P 701201-01-6P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
 preparation); THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); RACT (Reactant or reagent); USES (Uses)
 (peptide inhibitors of angiogenesis, cell migration, cell invasion and
 cell proliferation, preparation, and compns. and therapeutic uses)

IT 701200-81-9P 701200-88-6P 701200-90-0P

701200-91-1P 701200-92-2P 701200-93-3P

701200-99-9P 701201-02-7P 701201-03-8P

701201-04-9P 701201-05-0P 701201-06-1P

701201-07-2P 701201-08-3P 701201-09-4P

701201-10-7P 701201-11-8P 701201-12-9P

701201-13-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(peptide inhibitors of angiogenesis, cell migration, cell invasion and
 cell proliferation, preparation, and compns. and therapeutic uses)

IT 262438-43-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(peptide inhibitors of angiogenesis, cell migration, cell invasion and
 cell proliferation, preparation, and compns. and therapeutic uses)

L17 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:243058 HCAPLUS

DN 139:173332

TI Inhibition of integrin $\alpha 5 \beta 1$ function with a small peptide
 (ATN-161) plus continuous 5-FU infusion reduces colorectal liver
 metastases and improves survival in mice

AU Stoeltzing, Oliver; Liu, Wenbiao; Reinmuth, Niels; Fan, Fan; Parry,
 Graham C.; Parikh, Alexander A.; McCarty, Marya F.; Bucana, Corazon

D.; Mazar, Andrew P.; Ellis, Lee M.
 CS Department of Cancer Biology, The University of Texas M.D. Anderson Cancer Center, Houston, TX, 77030-4009, USA
 SO International Journal of Cancer (2003), 104(4), 496-503
 CODEN: IJCNAW; ISSN: 0020-7136
 PB Wiley-Liss, Inc.
 DT Journal
 LA English
 AB Integrin $\alpha 5\beta 1$ is expressed on activated endothelial cells and plays a critical role in tumor angiogenesis. We hypothesized that a novel integrin $\alpha 5\beta 1$ antagonist, ATN-161, would inhibit angiogenesis and growth of liver metastases in a murine model. We further hypothesized that combining ATN-161 with 5-fluorouracil (5-FU) chemotherapy would enhance the antineoplastic effect. Murine colon cancer cells (CT26) were injected into spleens of BALB/c mice to produce liver metastases. Four days thereafter, mice were given either ATN-161 (100 mg/kg, every 3rd day) or saline by i.p. injection, with or without combination of continuous-infusion 5-FU (100 mg/kg/2 wk), which was started on day 7. On day 20 after tumor cell inoculation, mice were killed and liver wts. and number of liver metastases were determined. A follow-up study on survival was also conducted in which mice were randomized to receive ATN-161, 5-FU or ATN-161+5-FU. Combination therapy with ATN-161+5-FU significantly reduced tumor burden (liver weight) and number of liver metastases ($p < 0.02$). Liver tumors in the ATN-161 and ATN-161+5-FU groups had significantly fewer microvessels ($p < 0.05$) than tumors in the control or 5-FU-treated groups. Unlike treatment with either agent alone, ATN-161+5-FU significantly increased tumor cell apoptosis and decreased tumor cell proliferation ($p < 0.03$) and improved overall survival ($p < 0.03$, log-rank test). Targeting integrin $\alpha 5\beta 1$ in combination with 5-FU infusion reduced liver metastases formation and improved survival in this colon cancer model. The enhancement of antineoplastic activity from the combination of anti-angiogenic therapy and chemotherapy may be a promising approach for treating metastatic colorectal cancer.

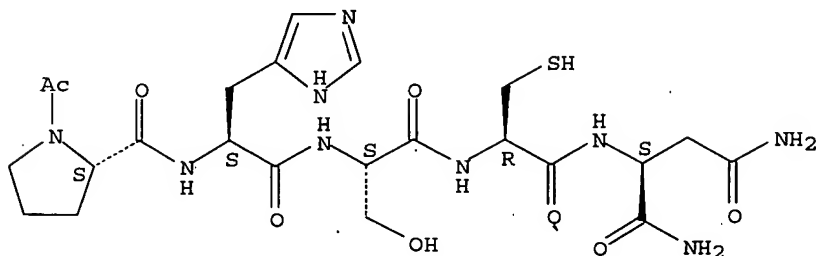
IT 262438-43-7, ATN 161
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (inhibition of integrin $\alpha 5\beta 1$ function with ATN-161 plus 5-FU infusion reduces colorectal liver metastases and improves survival in mice)

RN 262438-43-7 HCAPLUS
 CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI)
 (CA INDEX NAME)

NTE modified

SEQ 1 PHSCN

Absolute stereochemistry.



IT INDEXING IN PROGRESS
 IT 262438-43-7, ATN 161
 RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(inhibition of integrin $\alpha 5 \beta 1$ function with ATN-161 plus 5-FU
infusion reduces colorectal liver metastases and improves survival in
mice)

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Baker, C	2002	62	1996	Cancer Res	HCAPLUS
Bello, L	2001	61	7501	Cancer Res	HCAPLUS
Bergsland, E	2000	19	242	Proc Am Soc Clin Onc	
Braakhuis, B	1995	22	42	Semin Oncol	HCAPLUS
Brooks, P	1994	79	1157	Cell	HCAPLUS
Brooks, P	1995	96	1815	J Clin Invest	HCAPLUS
Browder, T	2000	60	1878	Cancer Res	HCAPLUS
Bruns, C	2000	89	488	Cancer	HCAPLUS
Bruns, C	2000	6	1936	Clin Cancer Res	HCAPLUS
Fidler, I	1991	10	229	Cancer Metastasis Re	MEDLINE
Friedlander, M	1995	270	1500	Science	HCAPLUS
Gately, S	2001	7	427	Cancer J	MEDLINE
Giancotti, F	1999	285	1028	Science	HCAPLUS
Gong, J	1997	8	83	Cell Growth Differ	HCAPLUS
Griggs, D	2001	42	1420	Proc Am Assoc Cancer	
Hanahan, D	2000	105	1045	J Clin Invest	HCAPLUS
Hynes, R	1992	69	11	Cell	HCAPLUS
Kakeji, Y	1997	15	39	Invest New Drugs	HCAPLUS
Kase, S	1993	13	369	Anticancer Res	HCAPLUS
Kerbel, R	2002	13	12	Ann Oncol	MEDLINE
Kerbel, R	2000	36	1248	Eur J Cancer	HCAPLUS
Kerr, J	1999	19	959	Anticancer Res	HCAPLUS
Kerr, J	2000	9	1271	Expert Opin Investig	HCAPLUS
Kim, S	2000	156	1345	Am J Pathol	HCAPLUS
Kim, S	2000	275	33920	J Biol Chem	HCAPLUS
Klement, G	2002	8	221	Clin Cancer Res	HCAPLUS
Klement, G	2000	105	R15	J Clin Invest	HCAPLUS
Klotz, O	2000	238	88	Arch Clin Exp Ophtha	HCAPLUS
Kumar, C	2000	476	169	Adv Exp Med Biol	MEDLINE
Kumar, C	2001	61	2232	Cancer Res	HCAPLUS
Livant, D	2000	60	309	Cancer Res	HCAPLUS
Lode, H	1999	96	1591	Proc Natl Acad Sci U	HCAPLUS
Morikawa, K	1990	82	517	J Natl Cancer Inst	HCAPLUS
Mross, K	2000	3	223	Drug Resist Updat	HCAPLUS
O'Brien, V	1996	224	208	Exp Cell Res	HCAPLUS
Remmenga, S	1994	55	115	Gynecol Oncol	MEDLINE
Schreiner, C	1991	9	163	Clin Exp Metastasis	HCAPLUS
Stoeltzing, O	2001	7	3656S	Clin Cancer Res	
Storgard, C	1999	103	47	J Clin Invest	HCAPLUS
Tedjarati, S	2002	8	2413	Clin Cancer Res	HCAPLUS
Varner, J	1995	6	725	Mol Biol Cell	HCAPLUS
White, E	2001	167	5362	J Immunol	HCAPLUS

=> d bib abs hitseq retable 120 tot

L20 ANSWER 1 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:663850 HCAPLUS

DN 141:186005

TI Rice nucleic acid molecules and encoded proteins and their uses for plant
improvement

IN La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei;
Boukharov, Andrey A.; Barbazuk, Brad W.

PA USA

SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 837,604.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 27

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US2004123343	A1	20040624	2003US-0437963	20030514 <--
	US2004123343	A1	20040624	2003US-0437963	20030514 <--
PRAI	2000US-197872P	P	20000419	<--	
	2001US-0837604	A2	20010418	<--	
	2003US-0437963	A	20030514		
AB	The present invention provides 102,483 cDNA sequences and their encoded protein sequences from rice (<i>Oryza sativa</i>). Bioinformatic anal. identified putative functions and uses for the nucleic acids/polypeptides. The disclosed polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. [This abstract record is one of forty-one records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]				
IT	736624-12-7 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; rice nucleic acid mols. and encoded proteins and their uses for plant improvement)				
RN	736624-12-7 HCAPLUS				
CN	Protein (<i>Oryza sativa</i> clone PAT_MRT4530_75798C.1.pep fragment) (9CI) (CA INDEX NAME)				

SEQ 1 SVPFLPAEIL TTWVSIPILS PMTLLLCSLF TWMKLEGFTV HATPHSCNHL
51 L

L20 ANSWER 2 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:663844 HCAPLUS

DN 141:186000

TI Rice nucleic acid molecules and encoded proteins and their uses for plant improvement

IN La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei; Boukharov, Andrey A.; Barbazuk, Brad W.

PA USA

SO U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 837,604.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 27

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US2004123343	A1	20040624	2003US-0437963	20030514 <--
	US2004123343	A1	20040624	2003US-0437963	20030514 <--
PRAI	2000US-197872P	P	20000419	<--	
	2001US-0837604	A2	20010418	<--	
	2003US-0437963	A	20030514		
AB	The present invention provides 102,483 cDNA sequences and their encoded protein sequences from rice (<i>Oryza sativa</i>). Bioinformatic anal. identified putative functions and uses for the nucleic acids/polypeptides. The disclosed polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. [This abstract record is one of forty-one records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]				
IT	736366-35-1 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; rice nucleic acid mols. and encoded proteins and their uses for plant improvement)				

RN 736366-35-1 HCAPLUS
CN Protein (Oryza sativa clone PAT_MRT4530_52392C.1.pep fragment) (9CI) (CA INDEX NAME)

SEQ 1 MAHTSGVAAR LNLVFMGRPL ARSAQPPPSG PRFSGRAQRR RGSNEATACG
51 KGRSRAGRAA SPDVVATKPP PLHDEEEEEEG GRMVRRGRKG KDAAAGAGGT
101 GGRGGGAGRG GGRGGSGGGG GGGGVREATL VRVSKVLEDF QASDAQVYKF
151 EPGISKQERA AIHEMCRKMG MISKSSNGE RRCLSVYKRK QNQGLETEEG
201 PSHLGFSVEA RNVLQDLFMH YPPDDAELNG HTVRNSSDKA VKIQWKPDGA
251 FCRPALRKPD ILKKVEMLAS KIVQDRSKLP ISSYKDAISS TLENHQVVLI
301 SGETGCGKTT QVPQYILDHM WGKGESCKIV CTQPRRISAI SVAERISAER
351 GESVGDITVGY KIRLESKGGK NSSIMFCTNG VLLRLLIGRR IAENIYQLFL
401 CNSERAHLDE EIHERDRFSD FMLAILRDLI PLYPHLRVLK TFYLEDVLSI
451 LQSVGDNLHD PTTDDLKQSS LLTDDYKSSM DEAINLALDN DEFDPLELEI
501 SAEQNQEIFN YQHSETGVTP LMLVLAGKQV GDICMLLSFG VDCSTRDHG
551 KSALGWAEQG NQEVCEVIK KHMECGSAKL TEENELLNKY LATINPEHID
601 TVLIERLLRK ICVDSNEGAI LVFLPGWEDI NQTRERLLAS PFFQDSSKFL
651 VLSLHSMIPS SEQKKVFKRP PAGSRKIILS TNIAETAVTI DDVVFVIDSG
701 RMKEKSYDPY NNVSTLHSSW VSKANARQRO GRAGRCQPGT CYHLYSRFRA
751 ASLLEYQIPE IKRMPIEELC LQVKLLDPNC RIADFLRRTL DPPIPETVRN
801 AITVLQDLGA LTQDEQLTEL GEKLGSLPVH PSTSKMLLFG ILMNCLDPAL
851 TLACAAADYRD PFLPLMAPDE RKRAAAAKVE LASLYGGYSD QLAVVAAMDC
901 WRRAKDRGQE AQFCSKYFVS SNTMNMLSNM RKQLQNELAQ RGFVPVDASA
951 CSLNARDPGI IRAVLMAAGY PMVGRLLPPR KNTRRAVIET ASGAKVRLHP
1001 HSCNFNLSFR KTSNPLVIY DEITRGDGGM YIKNSSVVGVS YPLIILATEM
1051 VVAPPEDDDS DEEDGDSSD ETEKVTLGQH KEIMSSPDNS VSVVIDRWLR
1101 FDATAALDVAQ IYCLRERLAS AILFKVKHPQ DVLPPDLGAT MYAIACILSY
1151 DGLPAMITSD DVATSQGSNQ SSAESSRFSQ GRRVGYIPPG GFLMSLLSDK
1201 PLNAPHFOKS FNHPDGASGH IRSSRTSVGR FDQSRHPQRN NSGPGSSAAR
1251 TFKRQRNGAQ

L20 ANSWER 3 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:449883 HCAPLUS
DN 140:402911
TI Binary prediction tree modeling with many predictors and its uses in
clinical and genomic applications
IN Nevins, Joseph R.; West, Mike; Huang, Andrew T.
PA Duke University, USA
SO PCT Int. Appl., 886 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2004038376	A2	20040506	2003WO-XA33946	20031024 <--
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW</p> <p>RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG</p>				
WO2004038376	A2	20040506	2003WO-US33946	20031024 <--
WO2004038376	A3	20040826		
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,</p>				

OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
 TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI 2002US-420729P P 20021024 <--
 2002US-421062P P 20021025 <--
 2002US-421102P P 20021025 <--
 2002US-424701P P 20021108 <--
 2002US-424715P P 20021108 <--
 2002US-424718P P 20021108 <--
 2002US-425256P P 20021112 <--
 2003US-448461P P 20030221
 2003US-448462P P 20030221
 2003US-457877P P 20030327
 2003US-458373P P 20030331
 2003WO-US33946 A 20031024

AB The statistical anal. described and claimed is a predictive statistical tree model that overcomes several problems observed in prior statistical models and regression analyses, while ensuring greater accuracy and predictive capabilities. Although the claimed use of the predictive statistical tree model described herein is directed to the prediction of a disease in individuals, the claimed model can be used for a variety of applications including the prediction of disease states, susceptibility of disease states or any other biol. state of interest, as well as other applicable non-biol. states of interest. This model first screens genes to reduce noise, applies kmeans correlation-based clustering targeting a large number of clusters, and then uses singular value decompns. (SVD) to extract the single dominant factor (principal component) from each cluster. This generates a statistically significant number of cluster-derived singular factors, that are referred to as metagenes, that characterize multiple patterns of expression of the genes across samples. The strategy aims to extract multiple such patterns while reducing dimension and smoothing out gene-specific noise through the aggregation within clusters. Formal predictive anal. then uses these metagenes in a Bayesian classification tree anal. This generates multiple recursive partitions of the sample into subgroups (the 'leaves' of the classification tree), and assoc. Bayesian predictive probabilities of outcomes with each subgroup. Overall predictions for an individual sample are then generated by averaging predictions, with appropriate wts., across many such tree models. The model includes the use of iterative out-of-sample, cross-validation predictions leaving each sample out of the data set one at a time, refitting the model from the remaining samples and using it to predict the hold-out case. This rigorously tests the predictive value of a model and mirrors the real-world prognostic context where prediction of new cases as they arise is the major goal.

IT 391964-05-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)

(amino acid sequence; binary prediction tree modeling with many
 predictors and its uses in clin. and genomic applications)

RN 391964-05-9 HCAPLUS

CN NFX1 (human cell line Raji clone NFX.1 cDNA #16) (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL
 51 LFIISIVIIHQ EGKPKSQOTS FQSSPCNKSP KSHGLQNPQW QKLRNEKHII
 101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA
 151 KPKKATQFVY SYARGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL
 201 TLQRHPLEKE YWMGMEPDDEM SREDTHRGGL PGKWRGPGHD QAEIHQNRRA
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT
 301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCCLVR
 351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP
 401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH

501 GGQCQPCQII LNQVCYCGST SRDVLCTDV GKSDGFGDFS CLKTCGKDLK
 551 CGNHTCSQVC HPQPCQCCPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM
 601 DPVPCSGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR
 651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLNCG
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP
 751 ECTQTCARVH ECDHPVYHSG HSEKCPPCT FLTQKWCWGK HEFRSNIPCH
 801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP
 851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM
 901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSEASS KKRLAEAFHI
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN
 1001 SKKSHSFPPM NRDHRRRIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV
 1051 CPPTTLTGVL EREMQRPPP PIPHHRHQSD KNPSSNLQK ITKEPIIDYF
 1101 DVQD

L20 ANSWER 4 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:369010 HCAPLUS

DN 140:369948

TI Nucleic acids encoding human polypeptides and their diagnostic and therapeutic uses

IN Williams, Lewis T.; Chu, Keting; Lee, Ernestine; Hestir, Kevin; Beaurang, Pierre Alvaro; Behrens, Dirk; Halenbeck, Robert Forgan; Kothakota, Srinivas; Lin, Haishan; Linnemann, Thomas; Pierce, Kristen; Wang, Yan; Wong, Justin G. P.; Wu, Ge; Zhang, Hongbing; Zeng, Changjiang

PA Five Prime Therapeutics, Inc., USA

SO PCT Int. Appl., 532 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 18

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2004038003	A2	20040506	WO 2003-US333947	20031024 <--
	WO2004038003	A3	20041209		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU2003298606	A1	20040513	2003AU-0298606	20031024 <--
PRAI	2002US-421061P	P	20021025	<--	
	2002US-421080P	P	20021025	<--	
	2002US-421552P	P	20021025	<--	
	2002US-421614P	P	20021025	<--	
	2002US-422177P	P	20021030	<--	
	2002US-422178P	P	20021030	<--	
	2002US-426355P	P	20021115	<--	
	2002US-426384P	P	20021115	<--	
	2002US-426394P	P	20021115	<--	
	2002US-426430P	P	20021115	<--	
	2002US-426916P	P	20021115	<--	
	2002US-429224P	P	20021127	<--	
	2002US-429275P	P	20021127	<--	
	2002US-429302P	P	20021127	<--	
	2002US-429326P	P	20021127	<--	
	2002US-429651P	P	20021127	<--	
	2002US-430645P	P	20021204	<--	
	2002US-430651P	P	20021204	<--	
	2002US-430657P	P	20021204	<--	

2002US-430663P	P	20021204	<--
2002US-430668P	P	20021204	<--
2002US-430684P	P	20021204	<--
2002US-430937P	P	20021205	<--
2002US-430965P	P	20021205	<--
2002US-431458P	P	20021205	<--
2002US-433251P	P	20021212	<--
2002US-433500P	P	20021212	<--
2002US-433316P	P	20021213	<--
2002US-433318P	P	20021213	<--
2002US-436236P	P	20021223	<--
2003US-437914P	P	20030103	
2003US-440820P	P	20030117	
2003US-440821P	P	20030117	
2003US-463700P	P	20030418	
2003US-463708P	P	20030418	
2003US-463716P	P	20030418	
2003US-463732P	P	20030418	
2003US-467199P	P	20030502	
2003US-467201P	P	20030502	
2003US-467203P	P	20030502	
2003US-467230P	P	20030502	
2003US-471306P	P	20030519	
2003US-471336P	P	20030519	
2003US-472420P	P	20030522	
2003US-472430P	P	20030522	
2003US-476609P	P	20030609	
2003US-476621P	P	20030609	
2003US-476632P	P	20030609	
2003US-476641P	P	20030609	
2003US-485223P	P	20030708	

AB The invention provides 784 novel human cDNA sequences plus their encoded polypeptides and mouse homologs, and related modulators, such as antibodies and small mol. modulators. The invention also provides methods to make and use these polynucleotides, polypeptides, related compns., and modulators. These methods include diagnostic, prophylactic, and therapeutic applications. The compns. and methods of the invention are useful in treating proliferative disorders, e.g., cancers, and inflammatory, immune, bacterial, and viral disorders.

IT 683848-87-5, Protein (human clone HG1013154.P1)
 RL: ANT (Analyte); ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (amino acid sequence; nucleic acids encoding human polypeptides and their diagnostic and therapeutic uses)

RN 683848-87-5 HCAPLUS

CN Protein (human clone HG1013154.P1) (9CI) (CA INDEX NAME)

SEQ 1 MLEQKRDPWT LQSEVKIINN PDGRECIKGV NTEQKVHIRE KPYGCNEHGK
 51 VFRVSSSLTN RQVIHIADKT YKSCDCGEIF SSNSNFAQHQ RIHTGEKPYK
 101 YNECGKVFNQ NSHLAQHQKI HTGQKPYNNK ECGKVFSHHA YLAQHRKIHT
 151 GEKPYKCEC GKAFSVCSSL TAHLVIHTGE KPYDCKECCGK VFRHKSSLTT
 201 HQT VHTGERP YKNECGKGF SRIAFLARHR KVHTGEKPYK CNECGKVFIG
 251 NSRLARHRKI HTGGRRYKCN ECGKAFRTCS DLTAHLIIHT GEKPYECIDC
 301 GKVFRHKSSL TYHCRIHTGE KPYKNECGK VFSQNSNLQR HRKIHTGEKL
 351 YKNECGKV F RQNSHLAQHR DIHTGEKPYS CNECGKVFR NSHLVRHRNV
 401 HTGEKPYSCN ECGKVFSRNS HLAHRNIHT GEKPHSCNEC GKVFSRNSHL
 451 ARHRKIHTGE KLYKNECSK VFSRNSRLAQ HRNIHTGVKP YSCNECGKV
 501 SKNSILVQHC SIHTREKP

L20 ANSWER 5 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:209219 HCAPLUS

DN 140:230623
 TI Soybean nucleic acids and encoded proteins associated with transcription
 in plants and their uses for plant improvement
 IN La Rosa, Thomas J.; Zhou, Yihua; Kovalic, David K.; Cao, Yongwei
 PA USA
 SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 985,678,
 abandoned.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 76

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US2004031072	A1	20040212	2003US-0424599	20030428 <--
	US2004031072	A1	20040212	2003US-0424599	20030428 <--
PRAI	1999US-0304517	B1	19990506	<--	
	2001US-0985678	B2	20011105	<--	
	2003US-0424599	A	20030428		

AB This invention provides 142,842 polynucleotide sequences isolated from a
 cDNA library generated from Glycine maximum. The open reading frame in each
 polynucleotide sequence is identified by a combination of predictive and
 homol.-based methods. Functions of polypeptides encoded by the
 polynucleotide sequences are determined using a hierarchical classification
 tool, termed FuncAT, for Functional Categories Annotation Tool. Sequences
 useful for producing transgenic plants having improved biol. properties
 are identified from their FuncAT annotations. [This abstract record is one
 of 72 records for this document necessitated by the large number of index
 entries required to fully index the document and publication system
 constraints.]

IT 666944-30-5

RL: BSU (Biological study, unclassified); BUU (Biological use,
 unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; soybean nucleic acids and encoded proteins
 associated with transcription in plants and their uses for plant
 improvement)

RN 666944-30-5 HCAPLUS

CN Transcription-associated protein (Glycine max clone
 PAT_MRT3847_136416C.1.pep fragment) (9CI) (CA INDEX NAME)

SEQ 1 MAHLADLCQK LKVIEQCQVS PPPGSVPPTS LPLAFLDLPW VYCDTVQSIF
 51 FFEFPHSCNH FLQTVLPNLK HSLSLTLQQF FPFVGNLVIP PKPNFPHILY
 101 TSENSISFTI AESTADFP HL IADTARDVKD SHPFVPILPT PTTKEDGTWL
 151 LPLMAIQLTI FPEYGFSCICI SFRHVVDAR AFLHFMKFWS YVCRTKHDVA
 201 ATQDLLPLLN RDIKDPKGL KVFSEELWNS PIESIKT

L20 ANSWER 6 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:155817 HCAPLUS

DN 140:194470

TI Nucleic acids and encoded proteins associated with plants and their uses
 for plant improvement

IN Liu, Jingdong; Zhou, Yihua; Kovalic, David K.; Screen, Steven E.; Tabaska,
 Jack E.; Cao, Yongwei

PA USA

SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 985,678,
 abandoned.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 76

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US2004034888	A1	20040219	2003US-0425114	20030428 <--

US2004034888 A1 20040219 2003US-0425114 20030428 <--
 PRAI 1999US-0304517 B1 19990506 <--
 2001US-0985678 B2 20011105 <--
 2003US-0425114 A 20030428
 AB This invention provides 36,564 polynucleotide sequences isolated from cDNA libraries generated from various plants, including Zea mays, Glycine max, Arabidopsis thaliana, Lycopersicon esculentum, Oryza sativa, Triticum aestivum, Euglena gracilis, Chlorella vulgaris, Schizochytrium aggregatum, Brassica napus, Gossypium hirsutum, Cucumis sativus, Lilium asiatic, Sorghum bicolor, Chlorella sorokiniana, Cuphea pulcherrima, and Allium porrum. The open reading frame in each polynucleotide sequence is identified by a combination of predictive and homol.-based methods. Functions of polypeptides encoded by the polynucleotides sequences are determined using a hierarchical classification tool, termed FunCAT, for Functional Categories Annotation Tool. Sequences useful for producing transgenic plants having improved biol. properties are identified from their FunCAT annotations. [This abstract record is one of 19 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].
 IT 661754-58-1
 RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acids and encoded proteins associated with plants and their uses for plant improvement)
 RN 661754-58-1 HCAPLUS
 CN Protein (Glycine max clone 700747514_FLI.pep fragment) (9CI) (CA INDEX NAME)

SEQ 1 GQTEQKPNTTP HSCNQSMAEP SSSKPAVPLL KDELDIVIPT IRNLDFLEMW
 51 RPFPEPYHLI IVQDGPNT RT IKVPDGFDFE LYNRNDINRI LGPKASCISF
 101 KDSACRCFGY MVSKKKYIYT IDDDCFVAKD PSGKDINALE QHIKNLLCPS
 151 TPFFFTNTLYD PYRAGADFVR GYPFSLREGA PTAVSHGLWL NIPDYDAPTQ
 201 LVKPLERNTR YVDAVLTIPK GTLFPMCGMN LAFDRQLIGP AMYFGLMGDG
 251 QPIGRYDDMW AGWCVKVICD HLGLGVKTGL PYIWHKASN PFVNLKKEYK
 301 GIFWQEEIIP FFQSATIPKE CTSVQKCYIE LSKQVKEKLG AVDPYFTKLA
 351 DAMVTWIEAW DELNSTTSEE ASSKSANGAA AATK

L20 ANSWER 7 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:155810 HCAPLUS
 DN 140:194467
 TI Nucleic acids and encoded proteins associated with plants and their uses for plant improvement
 IN Liu, Jingdong; Zhou, Yihua; Kovalic, David K.; Screen, Steven E.; Tabaska, Jack E.; Cao, Yongwei
 PA USA
 SO U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S. Ser. No. 985,678, abandoned.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 76

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US2004034888	A1	20040219	2003US-0425114	20030428 <--
	US2004034888	A1	20040219	2003US-0425114	20030428 <--
PRAI	1999US-0304517	B1	19990506	<--	
	2001US-0985678	B2	20011105	<--	
	2003US-0425114	A	20030428		
AB	This invention provides 36,564 polynucleotide sequences isolated from cDNA libraries generated from various plants, including Zea mays, Glycine max, Arabidopsis thaliana, Lycopersicon esculentum, Oryza sativa, Triticum aestivum, Euglena gracilis, Chlorella vulgaris, Schizochytrium aggregatum,				

Brassica napus, Gossypium hirsutum, Cucumis sativus, Lilium asiatic, Sorghum bicolor, Chlorella sorokiniana, Cuphea pulcherrima, and Allium porrum. The open reading frame in each polynucleotide sequence is identified by a combination of predictive and homol.-based methods. Functions of polypeptides encoded by the polynucleotides sequences are determined using a hierarchical classification tool, termed FunCAT, for Functional Categories Annotation Tool. Sequences useful for producing transgenic plants having improved biol. properties are identified from their FunCAT annotations. [This abstract record is one of 19 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 661628-65-5

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acids and encoded proteins associated with plants and their uses for plant improvement)

RN 661628-65-5 HCAPLUS

CN Protein (Zea mays mexicana clone uC-zmroteosinte018g09_FLI.pep fragment) (9CI) (CA INDEX NAME)

SEQ 1 LLIGRGTNAS KARNQKRSLD DAVLGITHII VDEIHERDRF SDFMLTILRD
51 LLPLYPHLRM VLMSATIDAE RFSQYFNGCS VIQVPGFTYP VKSFYLEDVL
101 SILQSAEQNT EVYNYQHSET GITPLMVFAM KGQLGDCVCL LSFGVDCSAQ
151 DHDGKSALDW AQQENQOEVC EVIKKHMECS SEKSTEDNEL LNKYLASINP
201 EHIDTLLIER LLRKICVDSN EGAILVFLPG WEDISQTRER LFASPPFFQDS
251 SRFLVLSLHS MIPSEQKKV FKRPPVGVK IILSTNIAET AVTIDDDVVFV
301 IDSGRMKEKS YDPYNNVSTL HASWVSKASA RQREGGRAGRC QPGTCYHLYS
351 RFRASSLPDY QIPEIKRMPI EELCLQVKLL DSNCRIDFL KKTLDPPPIE
401 TVRNAIAVLQ DLGALTQDEQ LTELGEKLG LPVHPSTTKM LLFAILMNCL
451 DPALTACAA DYRDPFVLPV APDERKRAAA AKVELASLYG GFSDQLAVVA
501 AFDCCRHAKD RGQDSQFCAK YFVSSNIMNM LSSMRKQLQN ELSQRGFVPA
551 DASACSLNSK DPGIMRAVLM AGAYPMVGKM LPPRKNARKS VLETASGAKV
601 RLHPHSCNFN LSFSKSSGNP LLIYDEITRG DGGMYIKNSS VVGSYPLLLI
651 AAEMVVAPPD DSDDEDEEDS SEDEAEESTL VQHKEEIMSS PDSIVSVVVD
701 RWLRFDATA LVAQIYCLRE RLASAILFKV KHPQDVLPPA LGASMYAITC
751 ILSFDGLPSM VPPNDLSANR GSGQDLAEAS KFSQGRAGY IPPSGFLMSL
801 LADRTNAPS FQNSSNHPGG GSAHTRPSRA PVGRFDRSRR PFRNSGPGSS
851 APRSFKRQRD APR

L20 ANSWER 8 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:942764 HCAPLUS

DN 140:3792

TI Genes expressed in atherosclerotic tissue and their use in diagnosis and pharmacogenetics

IN Nevins, Joseph; West, Mike; Goldschmidt, Pascal

PA Duke University, USA

SO PCT Int. Appl., 408 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2003091391	A2	20031106	2002WO-XA38221	20021112 <--
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,			

NE, SN, TD, TG

WO2003091391 A2 20031106 2002WO-US38221 20021112 <--

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI 2002US-374547P P 20020423 <--
 2002US-420784P P 20021024 <--
 2002US-421043P P 20021025 <--
 2002US-424680P P 20021108 <--
 2002WO-US38221 A 20021112 <--

AB Genes whose expression is correlated with an determinant of an atherosclerotic phenotype are provided. Also provided are methods of using the subject atherosclerotic determinant genes in diagnosis and treatment methods, as well as drug screening methods. In addition, reagents and kits thereof that find use in practicing the subject methods are provided. Also provided are methods of determining whether a gene is correlated with a disease phenotype, where correlation is determined using a Bayesian anal.

IT 391964-05-9
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (amino acid sequence; genes expressed in atherosclerotic tissue and their use in diagnosis and pharmacogenetics)

RN 391964-05-9 HCAPLUS

CN NFX1 (human cell line Raji clone NFX.1 cDNA #16) (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL
 51 LFTSIVIIIRQ EGKPKSQQTS FQSSPCNKSP KSHGLQNPW QKLRNEKHII
 101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA
 151 KPKKATQFVY SYARGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL
 201 TLQRHPLEKE YWMGMEPDDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT
 301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR
 351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP
 401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH
 501 GGQCQCQII LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS CLKTCGKDLK
 551 CGNHTCSQVC HPQPCQQCPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM
 601 DPVPSCGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR
 651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLNCG
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP
 751 ECTQTICARVH ECDHPVYHSG HSEKCPPCT FLTQKWCMDK HEFRSNIPCH
 801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP
 851 CMAPCHTSSP CPVTACKAKV ELQCEGRRK EMVICSEASS TYQRIAAISM
 901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSEALER KKRLAEAFHI
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN
 1001 SKKSHSFPPM NRDRHRIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV
 1051 CPPTTLTGVL EREMQRPPP PIPHHRHQSD KNPSSNLQK ITKEPIIDYF
 1101 DVQD

L20 ANSWER 9 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:913280 HCAPLUS

DN 139:379453

TI Genes showing altered patterns of expression in multiple sclerosis and their diagnostic and therapeutic uses

IN Dangond, Fernando; Hwang, Daehee

PA Brigham and Women's Hospital, Inc., USA
 SO PCT Int. Appl., 148 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2003095618	A2	20031120	2003WO-US14462	20030507 <--
	WO2003095618	A3	20041021		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
	CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				
	GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				
	LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,				
	PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT,				
	TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
	KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,				
	FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,				
	BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US2004018522	A1	20040129	2003US-0430762	20030506 <--
	AU2003228936	A1	20031111	2003AU-0228936	20030507 <--
PRAI	2002US-379284P	P	20020509	<--	
	2003US-0430762	A1	20030506		
	2003WO-US14462	W	20030507		

AB The present invention identifies a number of gene markers whose expression is altered in multiple sclerosis (MS). These markers can be used to diagnose or predict MS in subjects, and can be used in the monitoring of therapies. In addition, these genes identify therapeutic targets, the modification of which may prevent MS development or progression. Genes were identified by determination of expression profiling. A large number of genes showing altered patterns of expression were identified, with the most discriminatory genes being those for: phosphatidylinositol transfer protein; inducible nitric oxide synthase, CIC-1 (CLCN1) muscle chloride channel protein, placental bikunin (AMBP), receptor kinase ligand LERK-3/Ephrin-A3, GATA-4, thymopoietin, transcription factor E2f-2, S-adenosylmethionine synthetase, carcinoembryonic antigen, the ret oncogene, a G protein-linked receptor (clone GPCR W), GTP-binding protein RALB, tyrosine kinase Syk, LERK-2/Ephrin-B1, ELK1 tyrosine kinase oncogene, transcription factor SL1, phospholipase C, gastricsin (progastricsin), and the D13S824E locus.

IT 391964-05-9
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (amino acid sequence; genes showing altered patterns of expression in multiple sclerosis and their diagnostic and therapeutic uses)

RN 391964-05-9 HCAPLUS
 CN NFX1 (human cell line Raji clone NFX.1 cDNA #16) (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL
 51 LFISIVIIRQ EGKPKSQQTS FQSSPCNKSP KSHGLQNQPW QKLRNEKHHI
 101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA
 151 KPKKATQFVY SYARGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL
 201 TLQRHPLEKE YWMGMEPDDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT
 301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR
 351 VTAPVWSCQS CYHVFHLNCI KKWARSASPQ ADGQSGWRCP ACQNVSAHVP
 401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH
 501 GGQCQCQII LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS CLKTCGKDLK
 551 CGNHTCSQVC HPQPCQCQPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM
 601 DPVPSGCKVC GKPLPCGSLD FIHTCEKLCH EGDGCPVSRT SVISCRCSFR
 651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLNCG
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP
 751 ECTQTCAVH ECDHPVYHSG HSEKCPPT FLTQKWCWGK HEFRSNIPCH
 801 LVDISCGPLC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP

851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM
 901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSEALER KKRLAEAFHI
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN
 1001 SKKSHSFPPM NRDRRIIHD LAQVYGLESV SYDSEPKNRV VVTAIRGKSV
 1051 CPPTTLTGVL EREMQRPPP PIPHRHQSD KNPSSNLQK ITKEPIIDYF
 1101 DVQD

L20 ANSWER 10 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:837371 HCAPLUS

DN 139:333132

TI Targets for therapeutic intervention identified in the human mitochondrial proteome

IN Ghosh, Soumitra S.; Fahy, Eoin D.; Zhang, Bing; Gibson, Bradford W.;

Taylor, Steven W.; Glenn, Gary M.; Warnock, Dale E.

PA Mitokor, USA; The Buck Institute for Age Research

SO PCT Int. Appl., 180 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2003087768	A2	20031023	2003WO-US10870	20030404 <--
	WO2003087768	A3	20051124		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US2004101874 A1 20040527 2003US-0408765 20030404 <--

PRAI 2002US-372843P P 20020412 <--

2002US-389987P P 20020617 <--

2002US-412418P P 20020920 <--

AB Mitochondrial targets for drug screening assays and for therapeutic intervention in the treatment of diseases associated with altered mitochondrial function are provided. Complete amino acid sequences are provided for 3025 polypeptides that comprise the human heart mitochondrial proteome, using fractionated proteins derived from highly purified mitochondrial preps., to identify previously unrecognized mitochondrial mol. components. Oxidative post-translational modification of tryptophan residues to N-formylkynurenine in cardiac mitochondrial proteins is also demonstrated by mass spectrometry.

IT 612115-69-2

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; targets for therapeutic intervention identified in the human mitochondrial proteome)

RN 612115-69-2 HCAPLUS

CN Protein (human heart clone GenBank gi:13242069 mitochondria-associated) (9CI) (CA INDEX NAME)

SEQ 1 MAEAPPVSGT FKFNTDAAEF IPQEKKNSGL NCGTQRRLLS NRIGRRNYSS
 51 PPPCHLSRQV PYDEISAVHQ HSYHPSGSKP KSQQTSEFQSS PCNKSPKSHG
 101 LQNPQWQKLR NEKHHRVKK AQSLEAQTSD TAGLESSTRS ESGTDLREHS
 151 PSESEKEVVG ADPRGAKPKK ATQFVYSYGR GPKVKGKLKC EWSNRTTPKP
 201 EDAGEPESTKP VGVFHPDSSE ASSRKGVLG YGARRNEQRR YPQKRPPWEV
 251 EGARPRPGRN PPKQEGHRHT NAGHRNNMGP IPKDDLNERP AKSTCDSEN

301 AVINKSSRRV DQEKCTVRRQ DPQVVSPPSR GKQNHVLKNV EHTGSLIEQ
 351 LTTEKYECMV CCELVRVTAP VWSCQSCYHV FHLNCIKKWA RSPASQADGQ
 401 SGWRCPACQN VSAHPNTYT CFCGKVNPE WSRNEIPHSC GEVCRKKQPG
 451 QDCPHSCNLL CHPGCPPCP AFMTKTCECG RTRHTVRCGQ AVSVHCSNPC
 501 ENILNCGQHQ CAELCHGGQC QPCQIILNQV CYCGSTSRDV LCGTDVGKSD
 551 GFGDFSCLKI CGKDLKCGNH TCSQVCHPOP CQOCPRLPQL VRCCPCGQTP
 601 LSQLELGSS SRKTCMDPVP SCGKVCCKPL PCGSLDFIHT CEKLCHEGDC
 651 GPCSRTSVIS CRCSFRTEL PCTSLKSEDA TFMCDKRCNK KRLCGRHKCN
 701 EICCVDEKHK CPLICGRKLR CGLHRCEEP C HRGNCQTCWQ ASFDELTCCH
 751 GASVIYPPVP CGTRPPECTQ TCARVHECDH PVYHSCHEE KCPPCTFLTQ
 801 KWCMDGKHEFR SNIPCHLVDI SCGLPCSATL PCGMHCKQRL CHKGECLVDE
 851 PCKQPCCTTPR ADCGHPCMAP CHTSSPCPVT ACKAKVELQC ECGRRKEMVI
 901 CSEASSTYQR IAAISMASKI TDMQLGGSVE ISKLITKKEV HQARLECDDE
 951 CSALERKKRL AEAFFHSEDS DPFNIRSSGS KFSDSLKEDA RKDLKFVSDV
 1001 EKEMETLVEA VNKVEVETSH WITFL

L20 ANSWER 11 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:697219 HCAPLUS

DN 139:192570

TI Nucleic acid and encoded amino acid sequences relating to Klebsiella pneumoniae for diagnostics and therapeutics

IN Breton, Gary L.; Osborne, Mark

PA Genome Therapeutics Corporation, USA

SO U.S., 932 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---6610836	B1	20030826	2000US-0489039	20000127 <--
PRAI	1999US-117747P	P	19990129	<--	

AB The invention provides 7171 isolated polypeptide and 7171 genomic nucleic acid sequences derived from Klebsiella pneumoniae strain 93,19097 (ATCC 202080) that are useful in diagnosis and therapy of pathol. conditions. The nucleotide sequences include those of two naturally occurring plasmids in K. pneumoniae. Antibodies against the polypeptides, and methods for the production of recombinant polypeptides are also provided. The invention also provides methods for the detection, prevention, and treatment of pathol. conditions resulting from bacterial infection. [This abstract record is one of four records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 581882-37-3

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acid and encoded amino acid sequences relating to Klebsiella pneumoniae for diagnostics and therapeutics)

RN 581882-37-3 HCAPLUS

CN Protein (Klebsiella pneumoniae strain ATCC202080 clone US6610836-SEQID-8731 open reading frame-encoded) (9CI) (CA INDEX NAME)

SEQ 1 MSLAPRKPGF YIPLRKHISP DCKRDILFRR GTQIQAGDSL GAACYKRLIP
 51 AAKAKAVNHT RDIPQTFWRD DRLPWLELRS TWRSRQAYKR HSHPOLSVGA
 101 IIEGETRCLC AGQEYLLQPG DLIVIPPHAP HSCNPLHGRP RSYHMLYLDA
 151 TWCHAQRDPDI PPGASITSPQ PLLRDSPLFA SFQQVVALMS RGSLEQLPAR
 201 LAQLLHALPL CAAAPQAPHH ASALLFQCLA MDLPASPSLD KLAHDSALRK
 251 ETVIRAVKQD TGLTPASLIN MARIEYAKTR LRAGDPIADV GYQAGFADQS
 301 HFHKTFVSYT AATPRQYAQS RSISDNK

L20 ANSWER 12 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:511464 HCAPLUS

DN 139:64457

TI Nucleic acids and their encoded polypeptides from human tissues

IN Tang, Y. Tom; Asundi, Vinod; Goodrich, Ryle W.; Ren, Feiyan; Zhang, Jie; Zhao, Qing A.; Wang, Jian-rui; Ghosh, Malabika; Xue, Aidong J.; Wehrman, Tom; Weng, Gezhi; Zhou, Ping; Drmanac, Radoje T.; Wang, Zhiwei; Ma, Yunqing; Wang, Dunrui; Chen, Rui-hong; Xu, Chongjun; Boyle, Bryan J.

PA Hyseq, Inc., USA; et al.

SO PCT Int. Appl., 1177 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 123

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2003054152	A2	20030703	2002WO-US39555	20021210 <--
	WO2003054152	A3	20041216		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US2004219521	A1	20041104	2002US-0128558	20020422 <--
	CA---2469941	AA	20030703	2002CA-2469941	20021210 <--
	EP---1504099	A2	20050209	2002EP-0805571	20021210 <--
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			
PRAI	2001US-339739P	P	20011210	<--	
	2001US-339453P	P	20011211	<--	
	2002US-365091P	P	20020314	<--	
	2002US-365384P	P	20020314	<--	
	2002US-372381P	P	20020412	<--	
	2002US-372615P	P	20020412	<--	
	2002US-0128558	A2	20020422	<--	
	2002US-376045P	P	20020424	<--	
	2000US-0488725	A2	20000121	<--	
	2000US-0491404	B2	20000125	<--	
	2000US-0552317	B2	20000425	<--	
	2000WO-US35017	A2	20001222	<--	
	2001WO-US02623	A2	20010125	<--	
	2001WO-US03800	A	20010205	<--	
	2001WO-US04927	A	20010226	<--	
	2001WO-US04941	A	20010305	<--	
	2001WO-US08631	A	20010330	<--	
	2001WO-US08656	A	20010416	<--	
	2002WO-US39555	W	20021210	<--	

AB The present invention provides novel nucleic acids, novel polypeptide sequences encoded by these nucleic acids and uses thereof. Thus, 911 novel nucleic acids were obtained from cDNA libraries prepared from various human tissues and in some cases isolated from a genomic library derived from human chromosomes using standard PCR, SBH (sequencing-by-hybridization) sequence signature anal., and Sanger sequencing techniques. Novel contigs of the invention were assembled from sequences that were obtained from a cDNA library by the above methods, and in some cases sequences obtained from one or more public databases, using a recursive algorithm to extend the seed EST into an extended assemblage. Tissue expression profiles and nearest neighbor sequence homologies are provided. The sequences of this invention have applications in nucleic acid or polypeptide arrays, in the identification of binding mols., and in treatment of diseases.

IT 548553-97-5P
 RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; nucleic acids and their encoded polypeptides from human tissues)
 RN 548553-97-5 HCAPLUS
 CN Protein (human clone WO03054152-SEQID-1231) (9CI) (CA INDEX NAME)

SEQ 1 MPVMSQLLSV HSEPSLLFLL TFPHSCNPPS LPSSSLSLSL THTHTHTHTH
 51: STHTHISRVL Q

L20 ANSWER 13 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:409169 HCAPLUS
 DN 138:380506
 TI Genes that are differentially expressed during erythropoiesis and their diagnostic and therapeutic uses
 IN Brissette, William H.; Neote, Kuldeep S.; Zagouras, Panayiotis; Zenke, Martin; Lemke, Britt; Hacker, Christine
 PA Pfizer Products Inc., USA; Max-Delbrueck-Centrum Fuer Molekulare Medizin
 SO PCT Int. Appl., 285 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2003038130	A2	20030508	2002WO-XA34888	20021031 <--
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	WO2003038130	A2	20030508	2002WO-US34888	20021031 <--
	WO2003038130	A3	20040212		
	WO2003038130	C1	20040422		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	2001US-335048P	P	20011031 <--		
	2001US-335183P	P	20011102 <--		
	2002WO-US34888	A	20021031 <--		

AB The present invention provides mol. targets that regulate erythropoiesis. Groups of genes or their encoded gene products comprise panels of the invention and may be used in therapeutic intervention, therapeutic agent screening, and in diagnostic methods for diseases and/or disorders of erythropoiesis. The panels were discovered using gene expression profiling of erythroid progenitors with Affymetrix HU6800 and HG-U95Av2

chips. Cells from an in vitro growth and differentiation system of SCF-Epo dependent human erythroid progenitors, E-cadherin+/CD36+ progenitors, cord blood, or CD34+ peripheral blood stem cells were analyzed. The HU6800 chip contains probes from 13,000 genes with a potential role in cell growth, proliferation, and differentiation and the HG-U95Av2 chip contains 12,000 full-length, functionally-characterized genes. [This abstract record is one of two records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 391964-05-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; genes that are differentially expressed during erythropoiesis and their diagnostic and therapeutic uses)

RN 391964-05-9 HCAPLUS

CN NFX1 (human cell line Raji clone NFX.1 cDNA #16) (9CI) (CA INDEX NAME)

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SEQ      1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL
      51 LFISIVIIRQ EGKPKSQQTS FQSSPCNKSP KSHGLQNPW QKLRNEKHII
     101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA
     151 KPKKATQFVY SYARGPKVKE KKKCEWSNRT TPKPEMLDPK VPNLWGFSTL
     201 TLQRHPLEKE YWMGMEPDDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA
     251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT
     301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR
     351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP
     401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC
     451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH
     501 GGQCQCQII LNQVCYCGST SRDVLCTGTV GKSDGFGDFS CLKTCGKDLK
     551 CGNHTCSQVC HPQPCQCCPR LPQLVRCPC GQTPLSQLLE LGSSSRKTCM
     601 DPVPSCGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR
     651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLNCG
     701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP
     751 ECTQTCARVH ECDHPVYHSG HSEKCPPCT FLTQKWCWGK HEFRSNIPCH
     801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP
     851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM
     901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSEALER KKRLAEAFHI
     951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN
    1001 SKKSHSFPPM NRDHRRRIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV
    1051 CPPTTLTGVL EREMQRPPP PIPHRHQSD KNPSSNLQK ITKEPIIDYF
    1101 DVQD

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L20 ANSWER 14 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:381677 HCAPLUS

DN 138:349762

TI Nucleic acid and amino acid sequences relating to *Acinetobacter baumannii* for diagnostics and therapeutics

IN Breton, Gary; Bush, David

PA Genome Therapeutics Corporation, USA

SO U.S., 328 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US---6562958	B1	20030513	1999US-0328352	19990604 <--
	US---6562958	B1	20030513	1999US-0328352	19990604 <--
PRAI	1998US-088701P	P	19980609	<--	
	1999US-0328352	A	19990604	<--	

AB The invention provides 4126 nucleic acid sequences derived from a genomic library of *Acinetobacter baumannii* strain 15839, as well as the derived open reading frames and protein-coding sequences. These sequences are

useful in diagnosis and therapy of pathol. conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathol. conditions resulting from bacterial infection. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 518375-13-8

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; nucleic acid and amino acid sequences relating to *Acinetobacter baumannii* for diagnostics and therapeutics)

RN 518375-13-8 HCAPLUS

CN Protein (*Acinetobacter baumannii* strain 15839 clone US6562958-SEQID-4825 open reading frame-encoded) (9CI) (CA INDEX NAME)

SEQ 1 VDLYPDRIIA VLDSMGVICA LGDLPHSCNH VAGIHLDAY HRLLEHGKRK
51 TLMVLPNCQT MVGLNFFNLI W

L20 ANSWER 15 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:282587 HCAPLUS

DN 138:266971

TI Nucleic acids and their encoded polypeptides from human tissues

IN Tang, Tom Y.; Zhang, Jie; Ren, Feiyan; Xue, Aidong J.; Zhao, Qing A.; Wang, Jian-rui; Wehrman, Tom; Zhou, Ping; Ghosh, Malabika; Wang, Dunrui; Ma, Yunqing; Asundi, Vinod; Wang, Zhiwei; Weng, Gezhi; Haley-Vicente, Dana; Drmanac, Rodoje T.

PA Hyseq, Inc., USA

SO PCT Int. Appl., 1185 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO2003029271	A2	20030410	2002WO-US30474	20020924 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA---2461280 AA 20030410 2002CA-2461280 20020924 <-- EP---1430112 A2 20040623 2002EP-0780359 20020924 <-- R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK PRAI 2001US-324631P P 20010924 <-- 2002WO-US30474 W 20020924 <--				

AB The present invention provides novel nucleic acids, novel polypeptide sequences encoded by these nucleic acids and uses thereof. Thus, 971 novel nucleic acids were obtained from cDNA libraries prepared from various human tissues and in some cases isolated from a genomic library derived from human chromosomes using standard PCR, SBH (sequencing-by-hybridization) sequence signature anal., and Sanger sequencing techniques. Novel contigs of the invention were assembled from sequences that were obtained from a cDNA library by the above methods, and in some cases sequences obtained from one or more public databases, using a recursive algorithm to extend the seed EST into an extended assemblage. Tissue expression profiles and

nearest neighbor sequence homologies are provided. The sequences of this invention have applications in nucleic acid or polypeptide arrays, in the identification of binding mols., and in treatment of diseases. The present invention claims a total of 6180 cDNA sequences, and discusses an addnl. 6180 encoded polypeptide sequences, but the Sequence Listing was not made available on publication of the patent application.

IT 503262-18-8P

RL: ANT (Analyte); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; nucleic acids and their encoded polypeptides from human tissues)

RN 503262-18-8 HCAPLUS

CN Protein (human clone WO03029271-SEQID-3115 contig) (9CI) (CA INDEX NAME)

SEQ 1 MEEVDHESKD VSGLWNLQRK VHIREKPYGC NEHGKVFVRVS SSLTNRQVIH
51 IADKTYKCSD CGEIFSSNSN FAQHQRITG EKPYPYNECG KVFNQNSHLA
101 QHQKIHTGQK PYNKKECGKV FSHHAYLAQH RKIHTGEKPY KCSECGKAFFS
151 VCSSLTAHLV IHTGEKPYDC KECGKVFRHK SSLTTHQTVH TGERPYKCNE
201 CGKGFSSRIAF LARHRKVHTG EKPYPYNECG KVFIGNSRLA RHRKIHTGGR
251 RYKNECGKA FRTCSDLTAH LLIHTGEKPY ECIDCGKVFR HKSSSLTYHCR
301 IHTGEKPYKC NECGKVFSQN SNLQHRKIH TGEKLYKCNE CGKVFRQNSH
351 LAQHRDIHTG EKPYSNECG KVFRNRSHLV RHRNVHTGEK PYSCNECGKV
401 FSRNSHLARH RNIHTGEKPH SCNECGKVFS RNSHLARHK IHTGEKLYKC
451 NECSKVFSRN SRLAQHRNIH TGVKPYSCNE CGKVFSKNSI LVQHCSIHTR
501 EKP

L20 ANSWER 16 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:55959 HCAPLUS

DN 138:84325

TI Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

AU Strausberg, Robert L.; Feingold, Elise A.; Grouse, Lynette H.; Derge, Jeffery G.; Klausner, Richard D.; Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn M.; Schuler, Gregory D.; Altschul, Stephen F.; Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.; Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather; Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh, Florence; Diatchenko, Luda; Marusina, Kate; Farmer, Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton, Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant, Tom L.; Scheetz, Todd E.; Brownstein, Michael J.; Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero; Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.; Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan, Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.; Richards, Stephen; Worley, Kim C.; Hale, Sarah; Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.; Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica; Helton, Erin; Kettelman, Mark; Madan, Anuradha; Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle; Madan, Anup; Young, Alice C.; Shevchenko, Yuriy; Bouffard, Gerard G.; Blakesley, Robert W.; Touchman, Jeffrey W.; Green, Eric D.; Dickson, Mark C.; Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy; Myers, Richard M.; Butterfield, Yaron S. N.; Krzywinski, Martin I.; Skalska, Ursula; Smailus, Duane E.; Schnerch, Angeliq; Schein, Jacqueline E.; Jones, Steven J. M.; Marra, Marco A.

CS National Cancer Institute, NIH, Bethesda, MD, 20892-2580, USA

SO Proceedings of the National Academy of Sciences of the United States of America (2002), 99(26), 16899-16903

CODEN: PNASA6; ISSN: 0027-8424

PB National Academy of Sciences

DT Journal

LA English

AB The National Institutes of Health Mammalian Gene Collection (MGC) Program

is a multiinstitutional effort to identify and sequence a cDNA clone containing a complete ORF for each human and mouse gene. ESTs were generated from libraries enriched for full-length cDNAs and analyzed to identify candidate full-ORF clones, which then were sequenced to high accuracy. The MGC has currently sequenced and verified the full ORF for a nonredundant set of >9000 human and >6000 mouse genes. Candidate full-ORF clones for an addnl. 7800 human and 3500 mouse genes also have been identified. All MGC sequences and clones are available without restriction through public databases and clone distribution networks. [This abstract record is one of eleven records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 479888-56-7
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (amino acid sequence; generation and initial anal. of more than 15,000
 full-length human and mouse cDNA sequences)
 RN 479888-56-7 HCAPLUS
 CN Protein FLJ14299 (human clone MGC:44951 IMAGE:5527569) (9CI) (CA INDEX
 NAME)

SEQ 1 MSDSPAGSNP RTPESSGSGS GGGGKRPAPV AAVSLLPPAD PLRQANRLPI
 51 RVLKMLSAHT GHLHPEYLQ PLSSTPVSP I ELDAKKSPLA LLAQTCSQIG
 101 KPDP PPPSSKL NSVAAAANGL GAEKDPGRSA PGAASAAAAL KQLGDSAPAE
 151 KSSF KPYSKG SGGGDSRKDS GSSSVSSTSS SSSSSPGDKA GFRVPSAACP
 201 PFP PHGAPVS ASSSSSPGG SRGGS PHSD CKNGGGVGGG ELDKKDQEPK
 251 PSPEPAAVSR GGGGEPGAHG GAESGASGRK SEPPSALVGA GHVAPVSPYK
 301 PGHSVFPLPP SSIGYHGSIV GAYAGYPSQF VPGLDPSKSG LVGGQLSGGL
 351 GLPPGKPPSS SPLTGASPPS FLQGLCRDPY CLGGYHGASH LGGSSCSTCS
 401 AHDPAGPSLK AGGYPLVYPG HPLQPAALSS SAAQAALPGH PLYTYGFMLQ
 451 NEPLPHSCNW VAASGPCDKR FATSEELLSH LRTHTALPGA EKLLAAYPGA
 501 SGLGSAAAAA AAAASCHLHL PPPAAPGSPG SLSLRNPHTL GLSRYHPYKG
 551 SHLSTAGGLA VPSLPTAGPY YSPYALYGQR LASASALGYQ

L20 ANSWER 17 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:55946 HCAPLUS

DN 138:84320

TI Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

AU Strausberg, Robert L.; Feingold, Elise A.; Grouse, Lynette H.; Derge, Jeffery G.; Klausner, Richard D.; Collins, Francis S.; Wagner, Lukas; Shenmen, Carolyn M.; Schuler, Gregory D.; Altschul, Stephen F.; Zeeberg, Barry; Buetow, Kenneth H.; Schaefer, Carl F.; Bhat, Narayan K.; Hopkins, Ralph F.; Jordan, Heather; Moore, Troy; Max, Steve I.; Wang, Jun; Hsieh, Florence; Diatchenko, Luda; Marusina, Kate; Farmer, Andrew A.; Rubin, Gerald M.; Hong, Ling; Stapleton, Mark; Soares, M. Bento; Bonaldo, Maria F.; Casavant, Tom L.; Scheetz, Todd E.; Brownstein, Michael J.; Usdin, Ted B.; Toshiyuki, Shiraki; Carninci, Piero; Prange, Christa; Raha, Sam S.; Loquellano, Naomi A.; Peters, Garrick J.; Abramson, Rick D.; Mullahy, Sara J.; Bosak, Stephanie A.; McEwan, Paul J.; McKernan, Kevin J.; Malek, Joel A.; Gunaratne, Preethi H.; Richards, Stephen; Worley, Kim C.; Hale, Sarah; Garcia, Angela M.; Gay, Laura J.; Hulyk, Stephen W.; Villalon, Debbie K.; Muzny, Donna M.; Sodergren, Erica J.; Lu, Xiuhua; Gibbs, Richard A.; Fahey, Jessica; Helton, Erin; Kettelman, Mark; Madan, Anuradha; Rodrigues, Stephanie; Sanchez, Amy; Whiting, Michelle; Madan, Anup; Young, Alice C.; Shevchenko, Yuriy; Bouffard, Gerard G.; Blakesley, Robert W.; Touchman, Jeffrey W.; Green, Eric D.; Dickson, Mark C.; Rodriguez, Alex C.; Grimwood, Jane; Schmutz, Jeremy; Myers, Richard M.; Butterfield, Yaron S. N.; Krzywinski, Martin I.; Skalska, Ursula; Smailus, Duane E.; Schnerch, Angelique; Schein, Jacqueline E.; Jones, Steven J. M.; Marra, Marco A.
 CS Mammalian Gene Collection (MGC) Program Team, National Cancer Institute, NIH, Bethesda, MD, 20892-2580, USA

SO Proceedings of the National Academy of Sciences of the United States of America (2002), 99(26), 16899-16903
CODEN: PNASA6; ISSN: 0027-8424

PB National Academy of Sciences

DT Journal

LA English

AB The National Institutes of Health Mammalian Gene Collection (MGC) Program is a multiinstitutional effort to identify and sequence a cDNA clone containing a complete ORF for each human and mouse gene. ESTs were generated from libraries enriched for full-length cDNAs and analyzed to identify candidate full-ORF clones, which then were sequenced to high accuracy. The MGC has currently sequenced and verified the full ORF for a nonredundant set of >9000 human and >6000 mouse genes. Candidate full-ORF clones for an addnl. 7800 human and 3500 mouse genes also have been identified. All MGC sequences and clones are available without restriction through public databases and clone distribution networks. [This abstract record is one of eleven records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 480793-91-7
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence; generation and initial anal. of more than 15,000 full-length human and mouse cDNA sequences)

RN 480793-91-7 HCAPLUS

CN Protein (human clone MGC:20369 IMAGE:4558442) (9CI) (CA INDEX NAME)

SEQ 1 MAEAPPVSGT FKFNDAAEF IPQEKNSGL NCGTQRRLLDS NRIGRRNYSS
51 PPPCHLSRQV PYDEISAVHQ HSYHPSGSKP KSQQTFSQSS PCNKSPKSHG
101 LQNQPWQKLR NEKHHIRVKK AQSLAEQTS TAGLESSTRS ESGTDLREHS
151 PSESEKEVVG ADPRGAKPKK ATQFVYSYGR GPKVKGKLKC EWSNRTTPKP
201 EDAGPESTKP VGVFHPDSSE ASSRKGVLDD YGARRNEQRR YPQKRPPWEV
251 EGARPRPGRN PPKQEGHRHT NAGHRNNMGP IPKDDLNERP AKSTCDSENL
301 AVINKSSRRV DQEKCTVRRQ DPQVVSFSPR GKQNHVLKNV ETHTGSLIEQ
351 LTTEKYECMV CCELVRVTAP VWSCQSCYHV FHLNCIKKWA RSPASQADGQ
401 SGWRCPACQN VSAHVPTYT CFCGKVKNP WSRNEIPHSC GEVCRKKQPG
451 QDCPHSCNLL CHPGPCPPCP AFMTKTCECG RTRHTVRCGQ AVSVHCSNPC
501 ENILNCGQH QCAELCHGGQC QPCQIILNQV CYCGSTSRDV LCGTDVGKSD
551 GFGDFSCSLKI CGKDLKCGNH TCSQVCHPQP CQCCPRLPQL VRCCPCGQTP
601 LSQLELGSS SRKTCMDPVP SCGKVCCKPL PCGSLDFIHT CEKLCHEGDC
651 GPCSRTSVIS CRCSFRTEL PCTSLKSEDA TFMCDKRCNK KRLCGRHKCN
701 EICCVDEKHK CPLICGRKLR CGLHRCCEPC HRGNCQTCWQ ASFDELTCCH
751 GASVIYPPVP CGTRPPECTQ TCARVHECDH PVYHSCHEE KCPPCTFLTQ
801 KWCMGKHEFR SNIPCHLVDI SCGLPCSATL PCGMHKCQRL CHKGECLVDE
851 PCKQPCTTPR ADCGHPCMAP CHTSSPCPVT ACKAKVELQC ECGRRKEMVI
901 CSEASSTYQR IAAISMASKI TDMQLGGSVE ISKLITKKEV HQARLECDEE
951 CSALERKKRL AEAFFHSEDS DPFNIRSSGS KFSDSLKEDA RKDLKFVSDV
1001 EKEMETLVEA VNKGKNSKKS HSFPPMNRDH RRIIHDLAQV YGLESVSYDS
1051 EPKRNVVVTA IRGKSVCPPT TLTGVLEREM QARPPPIPH HRHQSDKNPG
1101 SSNLQKITKE PIIDYFDVQD

L20 ANSWER 18 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:6504 HCAPLUS

DN 138:164516

TI Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs

AU Okazaki, Y.; Furuno, M.; Kasukawa, T.; Adachi, J.; Bono, H.; Kondo, S.; Nikaido, I.; Osato, N.; Saito, R.; Suzuki, H.; Yamanaka, I.; Kiyosawa, H.; Yagi, K.; Tomaru, Y.; Hasegawa, Y.; Nogami, A.; Schoenbach, C.; Gojobori, T.; Baldarelli, R.; Hill, D. P.; Bult, C.; Hume, D. A.; Quackenbush, J.; Schriml, L. M.; Kanapin, A.; Matsuda, H.; Batalov, S.; Beisel, K. W.; Blake, J. A.; Bradt, D.; Brusic, V.; Chothia, C.; Corbani, L. E.; Cousins,

S.; Dalla, E.; Dragani, T. A.; Fletcher, C. F.; Forrest, A.; Frazer, K. S.; Gaasterland, T.; Gariboldi, M.; Gissi, C.; Godzik, A.; Gough, J.; Grimmond, S.; Gustincich, S.; Hirokawa, N.; Jackson, I. J.; Jarvis, E. D.; Kanai, A.; Kawaji, H.; Kawasaki, Y.; Kedzierski, R. M.; King, B. L.; Konagaya, A.; Kurochkin, I. V.; Lee, Y.; Lenhard, B.; Lyons, P. A.; Maglott, D. R.; Maltais, L.; Marchionni, L.; McKenzie, L.; Miki, H.; Nagashima, T.; Numata, K.; Okido, T.; Pavan, W. J.; Perte, G.; Pesole, G.; Petrovsky, N.; Pillai, R.; Pontius, J. U.; Qi, D.; Ramachandran, S.; Ravasi, T.; Reed, J. C.; Reed, D. J.; Reid, J.; Ring, B. Z.; Ringwald, M.; Sandelin, A.; Schneider, C.; Semple, C. A. M.; Setou, M.; Shimada, K.; Sultana, R.; Takenaka, Y.; Taylor, M. S.; Teasdale, R. D.; Tomita, M.; Verardo, R.; Wagner, L.; Wahlestedt, C.; Wang, Y.; Watanabe, Y.; Wells, C.; Wilming, L. G.; Wynshaw-Boris, A.; Yanagisawa, M.; Yang, I.; Yang, L.; Yuan, Z.; Zavolan, M.; Zhu, Y.; Zimmer, A.; Carninci, P.; Hayatsu, N.; Hirozane-Kishikawa, T.; Konno, H.; Nakamura, M.; Sakazume, N.; Sato, K.; Shiraki, T.; Waki, K.; Kawai, J.; Aizawa, K.; Arakawa, T.; Fukuda, S.; Hara, A.; Hashizume, W.; Imotani, K.; Ishii, Y.; Itoh, M.; Kagawa, I.; Miyazaki, A.; Sakai, K.; Sasaki, D.; Shibata, K.; Shinagawa, A.; Yasunishi, A.; Yoshino, M.; Waterston, R.; Lander, E. S.; Rogers, J.; Birney, E.; Hayashizaki, Y.

CS Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa, 230-0045, Japan

SO Nature (London, United Kingdom) (2002), 420(6915), 563-573
CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB Only a small proportion of the mouse genome is transcribed into mature mRNA transcripts. There is an international collaborative effort to identify all full-length mRNA transcripts from the mouse, and to ensure that each is represented in a phys. collection of clones. The manual annotation of 60,770 full-length mouse cDNA sequences is now reported. These are clustered into 33,409 'transcriptional units', contributing 90.1% of a newly established mouse transcriptome database. Of these transcriptional units, 4258 are new protein-coding and 11,665 are new non-coding messages, indicating that non-coding RNA is a major component of the transcriptome. Forty-one percent of all transcriptional units showed evidence of alternative splicing. In protein-coding transcripts, 79% of splice variations altered the protein product. Whole-transcriptome analyses resulted in the identification of 2431 sense-antisense pairs. The present work, completely supported by phys. clones, provides the most comprehensive survey of a mammalian transcriptome so far, and is a valuable resource for functional genomics. The cDNA sequences are deposited in GenBank/EMBL/DBJ under accession nos. AK002213-AK021412, AK027261-AK054560, AK075567-AK090394, and AK117103-AK117104. [This abstract record is one of thirty records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 493548-19-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; anal. of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs)

RN 493548-19-9 HCAPLUS

CN Protein (mouse strain C57BL/6J clone 9330101C04 818-amino acid) (9CI). (CA INDEX NAME)

SEQ 1 MAEAPPVSGT FKFNTDAAEF IPQERKTSGL NCGTQRRLLDS SRIGRRNYNS
51 SPPCHLPRHI PYEDISAVHQ HSYASGSKPK SPQGFQSSN KSLKNHGLQN
101 QPWQKARNEK HQNRNKKAAQ LSEQTSDTSS LESVARSESG TNPREHSPSE
151 SEKEVVIADP RGAKPKKAAQ LTNYNYGRGPK AKGRLRSEWG NRMSPKSEDE
201 NTRPVAISHT DSSDASCRKP VVDPCVCRRN EQRRYPQKRP PWEVEGARPR
251 PGRNPPKQES QRHINAGPKT NMSPIPKDNL RERPTKSACD TGNLAVVSKS
301 SRRVNQEKTA VRRQDPQVLS PFPRGKQNHM LKNVETHTGS LIEQLTTEKY

351 ECMVCCCELVQ VTAPVWSCQS CFHVFHLNCI KKWARS PASH ADGQSGWRCP
 401 ACQNVSAHVP NTYTFCFGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS
 451 CNLLCHPGPC PPCPAFTTKT CECGRTRHTV RCGQPVSVHC SNACENILNC
 501 GQHHCAELCH GGQCQPCR II LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS
 551 CLKICGKDLK CGSHTCSQVC HPQPCQPCPR LPHLVRYCPC GQTPLSQLLE
 601 HGSNARKTCM DPVPSGKVC GKPLACGSSD FIHTCEKLCH EGDGCGCSRT
 651 SVISCRCSFR TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICCV
 701 KEHKCPLICG RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY
 751 PPVPCGTRPP ECTQTCARIH ECDHPVYHSC HSEKCPPCT FLTQKWC MGK
 801 HEELTIKKLW TFKETLDF

L20 ANSWER 19 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:982555 HCAPLUS

DN 138:84297

TI Analysis of the mouse transcriptome based on functional annotation of
 60,770 full-length cDNAs

AU Okazaki, Y.; Furuno, M.; Kasukawa, T.; Adachi, J.; Bono, H.; Kondo, S.;
 Nikaido, I.; Osato, N.; Saito, R.; Suzuki, H.; Yamanaka, I.; Kiyosawa, H.;
 Yagi, K.; Tomaru, Y.; Hasegawa, Y.; Nogami, A.; Schoenbach, C.; Gojobori,
 T.; Baldarelli, R.; Hill, D. P.; Bult, C.; Hume, D. A.; Quackenbush, J.;
 Schriml, L. M.; Kanapin, A.; Matsuda, H.; Batalov, S.; Beisel, K. W.;
 Blake, J. A.; Bradt, D.; Brusic, V.; Chothia, C.; Corbani, L. E.; Cousins,
 S.; Dalla, E.; Dragani, T. A.; Fletcher, C. F.; Forrest, A.; Frazer, K.
 S.; Gaasterland, T.; Gariboldi, M.; Gissi, C.; Godzik, A.; Gough, J.;
 Grimmond, S.; Gustincich, S.; Hirokawa, N.; Jackson, I. J.; Jarvis, E. D.;
 Kanai, A.; Kawaji, H.; Kawasawa, Y.; Kedzierski, R. M.; King, B. L.;
 Konagaya, A.; Kurochkin, I. V.; Lee, Y.; Lenhard, B.; Lyons, P. A.;
 Maglott, D. R.; Maltais, L.; Marchionni, L.; McKenzie, L.; Miki, H.;
 Nagashima, T.; Numata, K.; Okido, T.; Pavan, W. J.; Pertea, G.; Pesole,
 G.; Petrovsky, N.; Pillai, R.; Pontius, J. U.; Qi, D.; Ramachandran, S.;
 Ravasi, T.; Reed, J. C.; Reed, D. J.; Reid, J.; Ring, B. Z.; Ringwald, M.;
 Sandelin, A.; Schneider, C.; Semple, C. A. M.; Setou, M.; Shimada, K.;
 Sultana, R.; Takenaka, Y.; Taylor, M. S.; Teasdale, R. D.; Tomita, M.;
 Verardo, R.; Wagner, L.; Wahlestedt, C.; Wang, Y.; Watanabe, Y.; Wells,
 C.; Wilming, L. G.; Wynshaw-Boris, A.; Yanagisawa, M.; Yang, I.; Yang, L.;
 Yuan, Z.; Zavolan, M.; Zhu, Y.; Zimmer, A.; Carninci, P.; Hayatsu, N.;
 Hirozane-Kishikawa, T.; Konno, H.; Nakamura, M.; Sakazume, N.; Sato, K.;
 Shiraki, T.; Waki, K.; Kawai, J.; Aizawa, K.; Arakawa, T.; Fukuda, S.;
 Hara, A.; Hashizume, W.; Imotani, K.; Ishii, Y.; Itoh, M.; Kagawa, I.;
 Miyazaki, A.; Sakai, K.; Sasaki, D.; Shibata, K.; Shinagawa, A.;
 Yasunishi, A.; Yoshino, M.; Waterston, R.; Lander, E. S.; Rogers, J.;
 Birney, E.; Hayashizaki, Y.

CS Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences
 Center (GSC), Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku,
 Yokohama, Kanagawa, 230-0045, Japan

SO Nature (London, United Kingdom) (2002), 420(6915), 563-573

CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB Only a small proportion of the mouse genome is transcribed into mature
 mRNA transcripts. There is an international collaborative effort to
 identify all full-length mRNA transcripts from the mouse, and to ensure
 that each is represented in a phys. collection of clones. The manual
 annotation of 60,770 full-length mouse cDNA sequences is now reported.
 These are clustered into 33,409 'transcriptional units', contributing
 90.1% of a newly established mouse transcriptome database. Of these
 transcriptional units, 4258 are new protein-coding and 11,665 are new
 non-coding messages, indicating that non-coding RNA is a major component
 of the transcriptome. Forty-one percent of all transcriptional units
 showed evidence of alternative splicing. In protein-coding transcripts,
 79% of splice variations altered the protein product. Whole-transcriptome
 analyses resulted in the identification of 2431 sense-antisense pairs.

The present work, completely supported by phys. clones, provides the most comprehensive survey of a mammalian transcriptome so far, and is a valuable resource for functional genomics. The cDNA sequences are deposited in GenBank/EMBL/DDBJ under accession nos. AK002213-AK021412, AK027261-AK054560, AK075567-AK090394, and AK117103-AK117104. [This abstract record is one of thirty records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 326053-89-8

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; anal. of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs)

RN 326053-89-8 HCAPLUS

CN Protein (mouse strain C57BL/6J clone 1300017N15 818-amino acid) (9CI) (CA INDEX NAME)

```

SEQ      1 MAEAPPVSGT FKFNTDAAEF IPQERKTSGL NCGTQRRLLDS SRIGRRNYSS
      51 SPPCHLPRHI PYEDISAVHQ HSYASGSKPK SPQGFQSSN KSLKNHGLQN
     101 QPWQKARNEK HQNRNKKAAQG LSEQTSDTSS LESVARSESG TNPREHSPSE
     151 SEKEVVIADP RGAKPKKAAQ LTYNVYGRGPK AKGRLRSEWG NRMSPKSEDE
     201 NTRPVAISHT DSSDASCRKP VVDPCVCRRN EQRRYPQKRP PWEVEGARPR
     251 PGRNPPKQES QRHINAGPKT NMSPIPKDNL RERPTKSACD TGNLAVVSKS
     301 SRRVNQEKTA VRRQDPQVLS PFPRGKQNHM LKNVETHTGS LIEQLTTEKY
     351 ECMVCCELVQ VTAPVWSCQS CFHVFHLNCI KKWARSASH ADGQSGWRCP
     401 ACQNVSAHVP NTYTCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS
     451 CNLLCHPGPC PPCPAFTTKT CECGRTRHTV RCGQPVSVHC SNACENILNC
     501 GQHHCAELCH GGQCQPCRRI LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS
     551 CLKICGKDLK CGSHTCSQVC HPQPCQPCPR LPHLVRYCPC GQTPLSQLLE
     601 HGSNARKTCM DPVPSCGKVC GKPLACGSSD FIHTCEKLCH EGDCGPCSRT
     651 SVISCRCSFR TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICCV
     701 KEHKCPLICG RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY
     751 PPVPCGTRPP ECTQTCARIH ECDHPVYHSC HSEKCPPCT FLTQKWCMMGK
     801 HEELTIKKLW TFKETLDF
  
```

L20 ANSWER 20 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:752116 HCAPLUS

DN 137:289735

TI Sequence of Plasmodium falciparum chromosomes 1, 3-9 and 13

AU Hall, N.; Pain, A.; Berriman, M.; Churcher, C.; Harris, B.; Harris, D.; Mungall, K.; Bowman, S.; Atkin, R.; Baker, S.; Barron, A.; Brooks, K.; Buckee, C. O.; Burrows, C.; Cherevach, I.; Chillingworth, C.; Chillingworth, T.; Christodoulou, Z.; Clark, L.; Clark, R.; Corton, C.; Cronin, A.; Davies, R.; Davis, P.; Dear, P.; Dearden, F.; Doggett, J.; Feltwell, T.; Goble, A.; Goodhead, I.; Gwilliam, R.; Hamlin, N.; Hance, Z.; Harper, D.; Hauser, H.; Hornsby, T.; Holroyd, S.; Horrocks, P.; Humphray, S.; Jagels, K.; James, K. D.; Johnson, D.; Kerhornou, A.; Knights, A.; Konfortov, B.; Kyes, S.; Larke, N.; Lawson, D.; Lennard, N.; Line, A.; Maddison, M.; McLean, J.; Mooney, P.; Moule, S.; Murphy, L.; Oliver, K.; Ormond, D.; Price, C.; Quail, M. A.; Rabinowitsch, E.; Rajandream, M.-A.; Rutter, S.; Rutherford, K. M.; Sanders, M.; Simmonds, M.; Seeger, K.; Sharp, S.; Smith, R.; Squares, R.; Squares, S.; Stevens, K.; Taylor, K.; Tivey, A.; Unwin, L.; Whitehead, S.; Woodward, J.; Sulston, J. E.; Craig, A.; Newbold, C.; Barrell, B. G.

CS The Wellcome Trust Sanger Institute, Hinxton, Cambridge, CB10 1SA, UK

SO Nature (London, United Kingdom) (2002), 419(6906), 527-531

CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB Since the sequencing of the first two chromosomes of the malaria parasite, Plasmodium falciparum, there has been a concerted effort to sequence and

assemble the entire genome of this organism. This report provides the sequence of chromosomes 1, 3-9 and 13 of *P. falciparum* clone 3D7; these chromosomes account for .apprx.55% of the total genome. The methods used to map, sequence and annotate these chromosomes is described. By comparing these assemblies with the optical map, the completeness of the resulting sequence is indicated. During annotation, Gene Ontol. terms were assigned to the predicted gene products, and clustering of some malaria-specific terms to specific chromosomes was observed. A highly conserved sequence element was found in the intergenic region of internal var genes that is not associated with their telomeric counterparts.

IT 467533-29-5

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; sequence of *Plasmodium falciparum* chromosomes 1, 3-9 and 13)

RN 467533-29-5 HCAPLUS

CN Protein (*Plasmodium falciparum* strain 3D7 gene PFI1410c) (9CI) (CA INDEX NAME)

```

SEQ      1 MNLHSAIYPL YKLVTIKPTH KKKSVPLYWV ALKSTSINNV EGNIKKCKRW
      51 NEECYKLKKK VPSKNEDDID IDKLNYMIRK ERERKKKNI KEKDNNNDNN
     101 NDDNNNDNNN DNNNEEEKK NYKKEGYFKY HDYDYDYHRD DVMKASIHMN
     151 KKENIWNMFN LDNKGYIKNV NIKINDTHLM DECINYCNTW NIQKICYKNV
     201 ANNNIHIIEK LETTPLERNN IINDKMDNIN NQANKMNSTY NNNNNNNNS
     251 CYNNEIKTF DHQEKNIHTP TNTNDIYDIN NYYDILENEH SLEIMKKKNS
     301 YNKLFDENDA RLKWDYQYDT YYSNDDIKYF NQYNDHNYWN YIYTLDLNKN
     351 VYLNLDLGRNK PIQFLNKFQI LQILYENIDK VLETDNLNMC YNTDNIKIYD
     401 NFQKNKICVR NTFNFDVSVK QKDLIHPHQ GNNLKELDKG EKKKKNSVHY
     451 FEEIILLKYI INFKYDKNKE INEIENPNKK HDNVNFFYHI LNRIEFISVS
     501 FNLRESIFIL CFFYLYNFLS FEILNKFQI ILLHIHDLNI VQTLILLNIY
     551 GTFKSNYEDV IHLLMYFYN IQGTHLSKYN LKENKITKKQ NKNDHKFVY
     601 YNHDESICTH DIPMKDNTYN VTYDMIFLNI CLQYNIHINN SLMLFFTQYH
     651 IHFYKNKIDS SLIPFQCFCF LTDGKNEHLF FKTLSQSFSS LNTHIVQOTS
     701 PGLRHILKNL QQNITTPRFT IEQLSKIISA LNFLDIEKWI RHMFTYIKRY
     751 NYMGLPKVGD HIKICDDIKT YDGIKTYDDI KTYDGIKTYD HIKTYDGIKT
     801 YDGIKTYDDI KTYDDIKTYD DIKTHDDIKT HDEITKRTTF EPPHSCNHKE
     851 QIFKSEHKLK PTYKEETKQN QPFNKHIINA NMKVINFLFF FNIVKNINRY
     901 FLFPFYDKYD LYELLKDEVF PEYKIKYQDG DITFSLVHT DYKLVNQYED
     951 VKLFYKKDVD NDICHMPYNV ENDQVYSYGE YHKTNETDCL INLTKDDVKN
    1001 LFDNNNNKLN TFLYNYKKIN IQNIPLKFIV DIIYFINKYG QMIIPFKNNI
    1051 NIKENDDINE YILRILSFCY LKIYVLLNSY NNISKEKKYI LSHLYKIINN
    1101 SYYLNDILN YIPTSLSTLH KDMHMSCSK HFNLSSYFIL NLTKNLLPKT
    1151 KNLYSSYHQN VINSYVQIN INTNINTNTN TNINTINKNY YKLTYSIYKT
    1201 LLSIYYNFFD YIKESFDILI FLKNSKNIFF SLCIYLYNIA KIMMLKHPYD
    1251 MTLQYLLSSL YNINIKINNN GNINNNNDNN DLYIPLEIYK LILNLLKKCI
    1301 SFFYLHKDNI IQHIVSNDV IDFLNTLSYF NISLYYYKYL LNIIQTNDTM
    1351 PQEKKTSRDN HINNTYNTVM STYEEETTCT YYQQYHDNIF SYFFKHLIQI
    1401 KTNICINDLNE SNKLILFKTL TKLFVFNKYK NVLHMDHITI LLNQIMHFVI
    1451 IHHMYISKHN YFFIISYIN LKKNYDIVKQ DKTFNHTAYQ KLAHICEQII
    1501 I

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RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Adhya, S	1989	23	227	Annu Rev Genet	HCAPLUS
Apweiler, R	2001	29	37	Nucleic Acids Res	HCAPLUS
Ashburner, M	2000	25	25	Nature Genet	HCAPLUS
Bateman, A	2002	30	276	Nucleic Acids Res	HCAPLUS
Berriman, M	2001	17	463	Trends Parasitol	MEDLINE
Bowman, S	1999	400	532	Nature	HCAPLUS
Cawley, S	2001	118	167	Mol Biochem Parasito	HCAPLUS
Claros, M	1996	241	779	Eur J Biochem	HCAPLUS

de Bruin, D	1992	14	332	Genomics	HCAPLUS
Deitsch, K	2001	412	875	Nature	HCAPLUS
Emanuelsson, O	2000	300	1005	J Mol Biol	HCAPLUS
Figueiredo, L	2002	21	815	EMBO J	HCAPLUS
Florens, L	2002	419	520	Nature	HCAPLUS
Gardner, M	1998	282	1126	Science	HCAPLUS
Glockner, G	2002	418	79	Nature	
Hapgood, J	2001	25	17	Cell Biol Int	HCAPLUS
Hyman, R	2002	419	534	Nature	HCAPLUS
Katinka, M.	2001	414	450	Nature	HCAPLUS
Konfortov, B	2000	10	1737	Genome Res	HCAPLUS
Krogh, A	2001	305	567	J Mol Biol	HCAPLUS
Lai, Z	1999	23	309	Nature Genet	HCAPLUS
Lasonder, E	2002	419	531	Nature	
Nielsen, H.	1999	12	3	Protein Eng	HCAPLUS
O'Donnell, R	2002	21	1231	EMBO J	HCAPLUS
Pachebat, J	2001	117	83	Mol Biochem Parasito	HCAPLUS
Piper, M	1998	8	1299	Genome Res	HCAPLUS
Quail, M	2001	12	355	DNA Seq	HCAPLUS
Rutherford, K	2000	16	944	Bioinformatics	HCAPLUS
Salzberg, S	1999	59	24	Genomics	HCAPLUS
Sonnhammer, E	1998	6	175	Proc Int Conf Intell	MEDLINE
Su, X	1999	286	1351	Science	HCAPLUS
Vazquez-Macias, A	2002	45	155	Mol Microbiol	HCAPLUS
Zdobnov, E	2001	17	847	Bioinformatics	HCAPLUS

L20 ANSWER 21 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:631705 HCAPLUS

DN 138:297158

TI Suppression of Tumor Recurrence and Metastasis by a Combination of the PHSCN Sequence and the Antiangiogenic Compound Tetrathiomolybdate in Prostate Carcinoma

AU van Golen, Kenneth L.; Bao, Liwei; Brewer, George J.; Pienta, Kenneth J.; Kamradt, Jeffrey M.; Livant, Donna L.; Merajver, Sofia D.

CS Division of Hematology and Oncology, Department of Internal Medicine, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI, 48109-0948, USA

SO Neoplasia (New York, NY, United States) (2002), 4(5), 373-379
CODEN: NEOPFL; ISSN: 1522-8002

PB Nature Publishing Group

DT Journal

LA English

AB Plasma fibronectin-mediated invasion of human DU145 prostate cancer cell line was efficaciously inhibited in a rat tumor model by treatment with Ac-PHSCN-NH2 peptide. Invasion of DU145 cells was stimulated by the PHSRN sequence of plasma fibronectin. However, PHSCN acts as a competitive inhibitor of PHSRN-mediated invasion. In the current study, we determined whether PHSCN could inhibit the recurrence and metastasis of DU145 tumors after excision of the primary tumor in an athymic nude mouse model. We demonstrated that mice treated thrice weekly with i.v. Ac-PHSCN-NH2 peptide survived tumor-free for more than 30 wk post-primary tumor excision, whereas their untreated counterparts succumbed to recurrence and/or metastatic disease in significantly less time. Because of the universal requirement for angiogenesis in solid tumor growth, we tested the efficacy of copper deficiency induced by tetrathiomolybdate (TM) to retard tumor growth in the Dunning prostate cancer model. Significant reduction in size of the primary tumor was observed in mice rendered copper deficient. We sought to reduce tumor growth at the primary and metastatic sites by combining the anti-invasion Ac-PHSCN-NH2 peptide with TM. Improved survival, fewer metastatic lesions, and excellent tolerability were observed with the combination therapy.

IT 262438-43-7

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

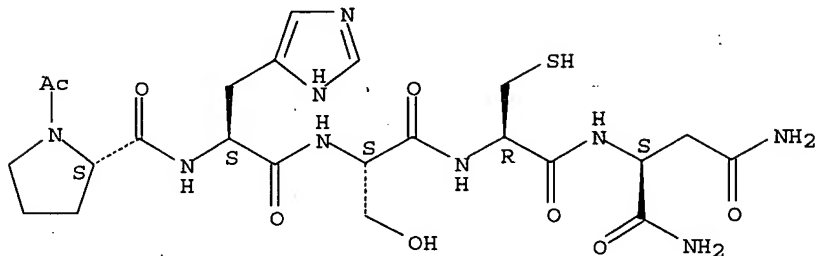
(suppression of tumor recurrence and metastasis by a combination of PHSCN sequence and the antiangiogenic compound tetrathiomolybdate in

prostate carcinoma)
 RN 262438-43-7 HCAPLUS
 CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI)
 (CA INDEX NAME)

NTE modified

SEQ 1 PHSCN

Absolute stereochemistry.



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Allen, M	1998	29	311	Hum Pathol	MEDLINE
American Cancer Society	2002			Cancer Facts and Fig	
Livant, D	1995	55	5085	Cancer Res	HCAPLUS
Livant, D	2000	60	309	Cancer Res	HCAPLUS
Mosher, D	1984	35	561	Annu Rev Med	HCAPLUS
Nozue, M	2001	8	1247	Oncol Rep	MEDLINE
Partin, A	2001	58	843	Urology	MEDLINE
Rokhlin, O	1995	26	205	Prostate	HCAPLUS
Romanov, V	1999	39	108	Prostate	HCAPLUS
Schroder, J	1998	45	1807	Hepatogastroenterolo	MEDLINE
Smith, D	1999	26	323	Urol Clin North Am	MEDLINE
Trikha, M	1996	56	5071	Cancer Res	HCAPLUS
Uchiyama, A	1999	81	721	Br J Cancer	MEDLINE
van Golen, K	1996	14	95	Clin Exp Metastasis	HCAPLUS
Webber, M	1995	1	1089	Clin Cancer Res	MEDLINE
Witkowski, C	1993	119	637	J Cancer Res Clin On	HCAPLUS
Zheng, D	1999	59	1655	Cancer Res	HCAPLUS

L20 ANSWER 22 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:555761 HCAPLUS

DN 137:121939

TI Compositions and methods for the use of fibronectin fragments in the diagnosis of cancer

IN Livant, Donna

PA The Regents of the University of Michigan, USA

SO PCT Int. Appl., 77 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2002057786	A2	20020725	2002WO-US01189	20020115 <--
	WO2002057786	A3	20031211		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,
 GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,
 GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA---2435320 AA 20020725 2002CA-2435320 20020115 <--

EP---1388013 A2 20040211 2002EP-0713418 20020115 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRAI 2001US-0765496 A 20010118 <--

2002WO-US01189 W 20020115 <--

OS MARPAT 137:121939

AB The present invention concerns the detection tumors in vivo, the imaging
 of tumors in vivo, and the imaging of cancerous tissue in pathol. samples.
 In particular the present invention incorporates the use of fibronectin
 fragments into these same detection and imaging methods.

IT 262438-43-7 443305-20-2 443305-23-5

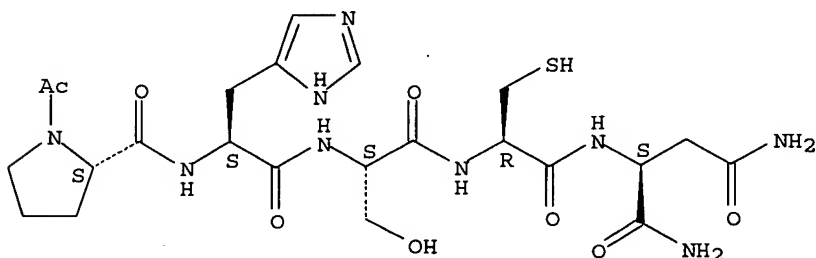
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical
 study); BIOL (Biological study); USES (Uses)

(compsn. and methods for use of fibronectin fragments in diagnosis of
 cancer)

RN 262438-43-7 HCAPLUS

CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI)
 (CA INDEX NAME)

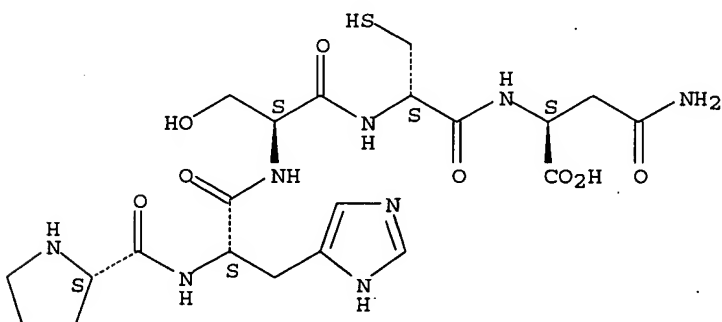
Absolute stereochemistry.



RN 443305-20-2 HCAPLUS

CN L-Asparagine, L-prolyl-L-histidyl-L-seryl-D-cysteinyl- (9CI) (CA INDEX
 NAME)

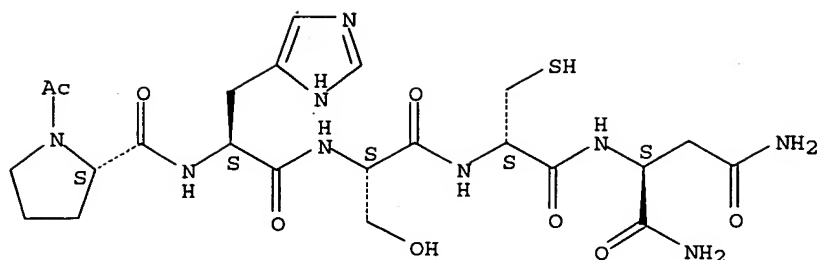
Absolute stereochemistry.



RN 443305-23-5 HCAPLUS

CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-D-cysteinyl- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.



IT 252229-85-9P

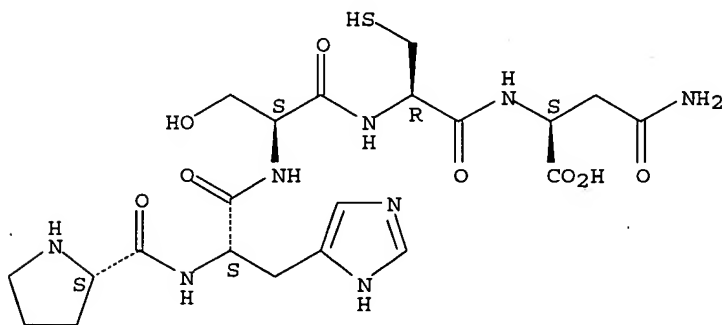
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(comps. and methods for use of fibronectin fragments in diagnosis of cancer)

RN 252229-85-9 HCAPLUS

CN L-Asparagine, L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI) (CA INDEX NAME)

SEQ 1 PHSCN

Absolute stereochemistry.



L20 ANSWER 23 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:471209 HCAPLUS

DN 138:302256

TI Murine NFX.1: Isolation and characterization of its messenger RNA, mapping of its chromosomal location and assessment of its developmental expression

AU Arlotta, Paola; Miyazaki, Dai; Copeland, Neal G.; Gilbert, Debra J.; Jenkins, Nancy A.; Ono, Santa J.

CS The Schepens Eye Research Institute, Harvard Medical School, Boston, MA, USA

SO Immunology (2002), 106(2), 173-181

CODEN: IMMUAM; ISSN: 0019-2805

PB Blackwell Science Ltd.

DT Journal

LA English

AB The authors have previously isolated (by expression cloning) a human cDNA, termed NFX.1, encoding a nucleic acid-binding protein that interacts with the conserved X1 box cis-element first discovered in class II major histocompatibility complex (MHC) genes. Functional studies involving expression of NFX.1 and assessment of expression from class II reporter constructs and endogenous class II MHC genes indicated that the factor could repress transcription of class II MHC genes. Subsequent studies have extended the biol. significance of the factor, indicating that it

plays an important role in neuronal development. Indeed, the reiterated RING finger motifs in the central domain of the polypeptide strongly suggest that NF-X1 is a probable E3 ubiquitin protein ligase, indicating that the protein may have multiple activities. Here the authors report the cloning of the mouse homolog of the human NfX.1 cDNA: m-Nfx.1. Comparison of the deduced primary sequence of mouse and human NFX.1 proteins shows very high homol. and confirms that m-NFX.1 contains the conserved cysteine-rich DNA-binding motif first described in human NFX.1 (95% homol.). Expression of MHC class II genes is substantially reduced following expression of m-NFX.1, which confirms that the authors have isolated the functional murine homolog of human NfX.1 cDNA. Further evidence comes from the mapping of m-Nfx.1 gene to the proximal region of mouse chromosome 4, a region syntenic to the location of human Nfx.1 (short arm of chromosome 9). Expression profiling show that m-NFX.1 is expressed ubiquitously in both adult tissues and during development, supporting the hypothesis that it may have yet-undescribed roles in distinct biol. processes.

IT 484154-74-7

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; sequence characterization, chromosomal mapping, and developmental expression for NFX.1 transcription factor of mouse)

RN 484154-74-7 HCAPLUS

CN Transcription factor NFX.1 (Mus musculus gene Nfx1) (9CI) (CA INDEX NAME)

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SEQ      1 MAEAPPVSGT FKFNDAAEF IPQERKTSGL NCGTQRRLLDS SRIGRRNYSS
      51 SPPCHLPRHI PYEDISAVHQ HSYASGSKPK SPQGFQSSN KSLKNHGLQN
     101 QPWQKARNEK HQNRNKKAAQ LSEQTSDTSS LESVARSESG TNPREHSPSE
     151 SEKEVVIADP RGAKPKKAAQ LTYNVGRGPK AKGRLRSEWG NRMSPKSEDE
     201 IPDPWRFPPTL TLQIASCRKP VVDPCVCRRN EQRRYPQKRP PLGSGRARPR
     251 PGRNPPKQES QRHINAGPKT NMSPIPKDNL RERPTKSACD TGNLAVVSKS
     301 SRRVNQEKTA VRRQDPQVLS PFPRGKQNHM LKNVETHTGS LIEQLTTEKY
     351 ECMVCCCELQV VTAPVWSCQS CFHVFHLNCI KKWARS PASH ADGQSGWRCP
     401 ACQNVSAHVP NTYTCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS
     451 CNLLCHPGPC PPCPAFTTKT CECGRTRHTV RCGQPVSVHC SNACENILNC
     501 GQHHCAELCH GGQCQPCRII LNQCVCYCGT SRDVLGCTDV GKSDGFGDFS
     551 CLKICGKDLK CGSHTCSQVC HPQPCQPCPR LPHLVRYCPC GQTPLSQLLE
     601 HGSNARKTCM DPVPSCGKVC GKPLACGSSD FIHTCEKLCH EGDCGPCSRT
     651 SVISCRCSFR TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD
     701 KEHKCPLICG RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY
     751 PPVPCGTRPP ECTQTCARIH ECDHPVYHSC HSEKCPPCT FLTQKWC MGK
     801 HELRSNIPCH LVDISGGLPC SAMLP CGMHK CQRLCHKGEC LVDEACKQPC
     851 TTPRGDCGHP CMAPCHPSLP CPVTACKAKV ELQCEGGRK EMVICSEASG
     901 TYQRIVAISM ASKITDMQLG DSVEISKLIT KKEVQQARLQ CDEECAALER
     951 RKRLAEAFDI TDDSDPFNVR SSASKFSDSL KDDARKDLKF VSDVEKEMET
    1001 LVEAVNKGKN NKKSHCFPPM NRDHRRIIHD LAQVYGLESI SYDSEPKNV
    1051 VVTAVRGKSV CPPTLTLSVI ERETQTRPPP PIPHHRHQAD KAPGSSTLQK
    1101 IVKEAVIDYF DVQD

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RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Abdulkadir, S	1995	9	1429	FASEB J	HCAPLUS
Abdulkadir, S	1995	182	487	J Exp Med	MEDLINE
Benichou, B	1991	88	4285	Proc Natl Acad Sci U	HCAPLUS
Chapman, H	1998	10	93	Curr Opin Immunol	HCAPLUS
Copeland, N	1991	7	113	Trends Genet	HCAPLUS
Douhan, J	1996	8	255	Int Immunol	HCAPLUS
Durand, B	1994	14	6839	Mol Cell Biol	HCAPLUS
Glimcher, L	1992	10	13	Annu Rev Immunol	HCAPLUS
Harton, J	2000	20	6185	Mol Cell Biol	HCAPLUS
Harton, J	2000	20	6185	Mol Cell Biol	HCAPLUS

Hume, C	1989	26	288	Hum Immunol	HCAPLUS
Jenkins, N	1982	43	26	J Virol	HCAPLUS
King, D	1983	131	315	J Immunol	HCAPLUS
Lander, E	2001	409	860	Nature	HCAPLUS
Marbois, B	1994	15	83	Arch Biochem Biophys	
Masternak, K	1998	20	273	Nat Genet	HCAPLUS
Matsushima, G	1994	78	645	Cell	HCAPLUS
McDevitt, H	1998	10	677	Curr Opin Immunol	HCAPLUS
Morales, J	1999	96	14470	Proc Natl Acad Sci U	HCAPLUS
Song, Z	1994	180	1763	J Exp Med	HCAPLUS
Steimle, V	1993	75	135	Cell	HCAPLUS
Stroumbakis, N	1996	16	192	Mol Cell Biol	HCAPLUS
Tai, A	1999	36	447	Mol Immunol	HCAPLUS
Ting, J	1993	12	65	Immunol Res	HCAPLUS
Wert, S	1993	156	426	Dev Biol	HCAPLUS
Wright, K	1994	13	4042	EMBO J	HCAPLUS

L20 ANSWER 24 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:459968 HCAPLUS

DN 137:1525

TI Cloning, protein and cDNA sequence of human nuclear transcription factor-2 and their uses in therapy and diagnosis

IN Sha, Jiahao; Zhou, Zuomin; Li, Jianmin

PA Nanjing Medical Univ., Peop. Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, *7 pp.

CODEN: CNXXEV

DT Patent

LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN---1318556	A	20011024	2001CN-0113502	20010411 <--
PRAI	2001CN-0113502		20010411	<--	

AB The invention provides full-length cDNA sequence (3,613 bp) and ORF (open reading frame) sequence (3,075 bp, its coding 1024 amino acids) of one human nuclear transcription factor-2 (NFX2). The invention relates to preparation of fusion protein in which NFX2 is fused with GST. The invention also relates to preparation of monoclonal antibody and polyclonal antibody. The invention also relates to preparation of biochip for detecting mutations in gene NFX21 encoding nuclear transcription factor-2 and for drug screening. The invention further relates to application of fusion protein of NFX2 in treating NFX2-related diseases.

IT 432839-50-4P

RL: BPN (Biosynthetic preparation); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; cloning, protein and cDNA sequence of human nuclear transcription factor-2 and their uses in therapy and diagnosis)

RN 432839-50-4 HCAPLUS

CN Transcription factor NFX2 (nuclear transcription factor-2) (human) (9CI)
(CA INDEX NAME)

SEQ 1 MAEAPPVSGT FKFNDAAEF IPQEKNSGL NCGTQRRLLS NRIGRRNYSS
51 PPPCHLSRQV PYDEISAVHQ HSYHPGSKP KSQTSFQSS PCNKSPKSHG
101 LQNQPWQKLR NEKHHRVKK AQSLAEQTS TAGLESSTRS ESGTDLREHS
151 PSESEKEVVG ADPRGAKPKK ATQFVYSYGR GPKVKGKLKC EWSNRTTPKP
201 EDAGPESTKP VGFHPDSSE ASSRKGVLDD YGARRNEQRR YPQKRPPWEV
251 EGARPRPGRN PPKQEGHRHT NAGHRNNMGP IPKDDLNERP AKSTCDSENL
301 AVINKSSRRV DQEKCTVRRQ DPQVVSFSPR GKQNHVILKNV ETHTGSLIEQ
351 LTTEKYECMV CCELVRVTAP VWSCQSCYHV FHLNCIKKWA RSPASQADGQ
401 SGWRCPACQN VSAHVPNTYT CFCGKVKNPE WSRNEIPHSC GEVCRKKQPG
451 QDCPHSCNLL CHPGPCPPCP AFMTKTCECG RTRHTVRCGQ AVSVHCSNPC
501 ENILNCGQH QCAELCHGGQC QPCQIILNQV CYCGSTSRDV LCGTDVGKSD
551 GFGDFSCLKI CGKDLKCGNH TCSQVCHPOP CQCCPRLPQL VRCCPCGQTP
601 LSQLELGGSS SRKTCMDPVP SCGKVCCKPL PCGSLDFIHT CEKLCHEGDC

651 GPCSRSTVIS CRCSFRTKEL PCTSLKSEDA TFMCDKRCNK KRLCGRHKCN
 701 EICCVDEKHK CPLICGRKLR CGLHRCEEPK HRGNCQTCWQ ASFDELTCHC
 751 GASVIYPPVP CGTRPPECTQ TCARVHECDH PVYHSCHEE KCPPCTFLTQ
 801 KWCMDGHEFR SNIPCHLVDI SCGLPCSATL PCGMHKCQRL CHKGECLVDE
 851 PCKQPCTTPR ADCGHPMAP CHTSSPCPVT ACKAKVELQC ECGRRKEMVI
 901 CSEASSTYQR IAAISMASKI TDMQLGGSVE ISKLITKKEV HQARLECDDE
 951 CSALERKKRL AEAFHISED DPFNIRSSGS KFSDSLKEDA RKDLKFVSDV
 1001 EKEMETLVEA VNKVEVETSH WTFL

L20 ANSWER 25 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:72748 HCAPLUS
 DN 136:146104
 TI Human stress genes identified using DNA microarrays
 IN Chenchik, Alex; Lukashev, Matvey E.
 PA Clontech Laboratories, Inc., USA
 SO U.S. Pat. Appl. Publ., 57 pp.; Cont.-in-part of U.S. Ser. No. 441,920.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US2002009730	A1	20020124	2001US-0782909	20010213 <--
PRAI	1998US-0222256	B2	19981228	<--	
	1999US-0440305	B2	19991117	<--	
	1999US-0441920	A2	19991117	<--	

AB Human stress arrays and methods for their use are provided. The subject arrays include a plurality of polynucleotide spots, each of which is made up of a polynucleotide probe composition of unique polynucleotides corresponding to a human stress gene. The average length of the polynucleotide probes is 50-1000 nucleotides. The d. of the spots on the array did not exceed 400/cm² and the spots had a diameter ranging between 10 and 5000 µm. Furthermore, the number of polynucleotide probe spots on the array ranged between 50 and 2000 nucleotides. The subject arrays find use in hybridization assays, particularly in assays for the identification of differential gene expression of human stress genes. Two hundred thirty-six different human stress genes were identified using this approach.

IT 391964-05-9
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (amino acid sequence; human stress genes identified using DNA microarrays)
 RN 391964-05-9 HCAPLUS
 CN NFX1 (human cell line Raji clone NFX.1 cDNA #16) (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL
 51 LFISIVIIIR EGKPKSQOTS FQSSPCNKSP KSHGLQNPW QKLRNEKHHI
 101 RVKKAQSLAE QTS DTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA
 151 KPKKATQFVY SYARGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL
 201 TLQRHPLEKE YWMGMEPDDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDPEKCT
 301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCELVR
 351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP
 401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH
 501 GGQCQCQII LNQVCYCGST SRDVLCTGTDV GKSDGFGDFS CLKTCGKDLK
 551 CGNHTCSQVC HPQCQCQCPR LPQLVRCCPC GQTPLSQLE LGSSSRKTCM
 601 DPVPSGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR
 651 TKELPCTSLK SEDATFMDK RCNKKRLCGR HKCNEICVD KEHKCPLNCG
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP
 751 ECTQTCARVH ECDHPVYHSG HSSEKCPPCT FLTQKWCMDK HEFRSNIPCH

801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP
 851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM
 901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSEALER KKRLAEAFHI
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN
 1001 SKKSHSFPPM NRDHRRRIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV
 1051 CPPTTLTGVL EREMQRPPP PIPHHRHQSD KNPSSNLQK ITKEPIIDYF
 1101 DVQD

L20 ANSWER 26 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2001:872086 HCAPLUS
 DN 136:32768
 TI Nucleic acids and their encoded polypeptides from human tissues
 IN Tang, Y. Tom; Liu, Chenghua; Drmanac, Radoje T.
 PA Hyseq, Inc., USA
 SO PCT Int. Appl., 831 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 124

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO2001088088	A2	20011122	2001WO-XB14827	20010516 <--
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW	
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
	WO2001088088	A2	20011122	2001WO-US14827	20010516 <--
	WO2001088088	A3	20021031		
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW	
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
PRAI	2000US-0577408	A	20000518 <--		
	2001WO-US14827	W	20010516 <--		

AB The present invention provides a collection or library of 8051 nucleic acid contig sequences assembled from expressed sequence tag or cDNA libraries isolated mainly by sequencing by hybridization (SBH), standard PCR, Sanger sequencing techniques, and in some cases, sequences obtained from one or more public databases. The cDNA libraries are from human tissue sources and nearest neighbor sequence homologies are provided. The invention also relates to the proteins encoded by such polynucleotides, along with therapeutic, diagnostic and research utilities for these polynucleotides and proteins. [This abstract record is one of four records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 376373-52-3

RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(amino acid sequence; nucleic acids and their encoded polypeptides from human tissues)

RN 376373-52-3 HCAPLUS

CN Peptide, (Gln-Leu-Gln-Ala-Met-Ala-Ile-Phe-Glu-Tyr-Leu-Lys-Thr-Phe-Leu-

Arg-Pro-Gly-Thr-Val-Pro-His-Ser-Cys-Asn-Pro-Ser-Thr-Leu-Gly-Gly-Arg-Gly-
Gly-Trp-Ile-Thr-Xaa-Gly-Gln-Glu-Leu-Glu-Ala-Ser-Pro) (9CI) (CA INDEX
NAME)

SEQ 1 QLQAMAIFEY LKKTFLRPGT VPHSCNPSTL GGRGGWITXG QELEASP

L20 ANSWER 27 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:834397 HCAPLUS

DN 136:65028

TI Complete genomic sequence of the filamentous nitrogen-fixing
cyanobacterium *Anabaena* sp. strain PCC 7120

AU Kaneko, Takakazu; Nakamura, Yasukazu; Wolk, C. Peter; Kuritz, Tanya;
Sasamoto, Shigemi; Watanabe, Akiko; Iriguchi, Mayumi; Ishikawa, Atsuko;
Kawashima, Kumiko; Kimura, Takaharu; Kishida, Yoshie; Kohara, Mitsuyo;
Matsumoto, Midori; Matsuno, Ai; Muraki, Akiko; Nakazaki, Naomi; Siumpo,
Sayaka; Sugimoto, Masako; Takazawa, Masaki; Yamada, Manabu; Yasuda, Miho;
Tabata, Satoshi

CS Kazusa DNA Research Institute, Chiba, 292-0812, Japan

SO DNA Research (2001), 8(5), 205-213

CODEN: DARSE8; ISSN: 1340-2838

PB Universal Academy Press

DT Journal

LA English

AB The nucleotide sequence of the entire genome of a filamentous
cyanobacterium, *Anabaena* sp. strain PCC 7120, was determined. The genome of
Anabaena consisted of a single chromosome (6,413,771 bp) and six plasmids,
designated pCC7120 α (408,101 bp), pCC7120 β (186,614 bp),
pCC7120 γ (101,965 bp), pCC7120 δ (55,414 bp), pCC7120 ϵ
(40,340 bp), and pCC7120 ζ (5,584 bp). The chromosome bears 5368
potential protein-encoding genes, four sets of rRNA genes, 48 tRNA genes
representing 42 tRNA species, and 4 genes for small structural RNAs. The
predicted products of 45% of the potential protein-encoding genes showed
sequence similarity to known and predicted proteins of known function, and
27% to translated products of hypothetical genes. The remaining 28%
lacked significant similarity to genes for known and predicted proteins in
the public DNA databases. More than 60 genes involved in various
processes of heterocyst formation and nitrogen fixation were assigned to
the chromosome based on their similarity to the reported genes. One
hundred and ninety-five genes coding for components of two-component
signal transduction systems, nearly 2.5-fold as many as those in
Synechocystis sp. PCC 6803, were identified on the chromosome. Only 37%
of the *Anabaena* genes showed significant sequence similarity to those of
Synechocystis, indicating a high degree of divergence of the gene
information between the two cyanobacterial strains.

IT 374860-51-2

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)

(amino acid sequence; complete genomic sequence of filamentous
nitrogen-fixing cyanobacterium *Anabaena* sp. strain PCC 7120)

RN 374860-51-2 HCAPLUS

CN Cation transport ATPase (*Nostoc* sp. PCC 7120 gene all2908) (9CI) (CA
INDEX NAME)

SEQ 1 MTATKPETSK QVAQSSIIA GVAYSVVHTI PGRIRFRVPL VAHDLYYAQR
51 LQELLESDSH ILEVVRNPWA ASVAIRYEQS ASNRLIEAYL VGLLHQAKFR
101 QPSTVNRQOV TKSDNAGVKL PVLATVLAVL GLGFPIPRAI IAATVGLAAL
151 PVAKRAYTSI TQKRKLNIDC LDFIAIALTS AQGNLLTPAL VMTLHEIGDI
201 IRDRTARVTE NHAADLLASL GHYAWVAQPD GQKKRLLATQ VQPQDTVIVY
251 PGEQIPVDGQ ILRGKALIDQ QKLTGESMPV LRQVGEAVYA STLLREGEIY
301 IQAERVGTAT RAGASIELVQ QAPVHDTRMG NYAADIADQA ILPSLIFAGL
351 VFAATRNPAR AASILTLDFV TGIRVSLPTT FLAALHHATR HGVLIRSGRA

401 LEKLAQVDTL VFDKTGTLTK GDIEVVEVEI IADRITTHRL IALATAAEQR
 451 LTHPVAEAVV RYAEKQGI EI LPRQEFYEI GLGVRAEIDG EQVIVGSDRF
 501 LRQCGIPLDC LYEPHSCNHA DCPKHLNCRI SAHDSLLYVA VNQEFQGVY
 551 YTDPLRPESP AVIEKLQTEY GMEIHLTLTG NQQRAMAVAA ELHLPLFQVH
 601 AEAFFPAQKAE IIQKFHDSGK TVAFTGDGLN DSIALAYADV AISFGSGSEV
 651 ARETADVVLMD DNLTSFLEA IAIARQTQAV IKQNISLAVV PNLAALGLAT
 701 TVGIHPLAAT VVHNGSAIAA GLNGLRPLMH KDPPR

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Altschul, S	1997	25	3389	Nucl Acids Res	HCAPLUS
Bancroft, I	1989	171	5940	J Bacteriol	HCAPLUS
Bancroft, I	1989	171	5949	J Bacteriol	HCAPLUS
Bancroft, I	1988	16	7405	Nucleic Acids Res	HCAPLUS
Corry, M	1974	46	63	FEBS Lett	HCAPLUS
Delcher, A	1999	27	4636	Nucleic Acids Res	HCAPLUS
Duyvesteyn, M	1983	134	276	Arch Microbiol	HCAPLUS
Golden, J	1998		162	Bacterial genomes ph	HCAPLUS
Gorbalenya, A	1998	26	1741	Nucleic Acids Res	HCAPLUS
Gorodkin, J	2001	29	169	Nucleic Acids Res	HCAPLUS
Iwasaki, H	2000	41	1013	Plant Cell Physiol	HCAPLUS
Janda, L	1996	178	1487	J Bacteriol	HCAPLUS
Kaneko, T	1995	2	153	DNA Res	HCAPLUS
Kaneko, T	1996	3	109	DNA Res	HCAPLUS
Kumano, M	1983	24	219	Gene	HCAPLUS
Kuritz, T	1993	8	101	Mol Microbiol	HCAPLUS
Lambert, G	1984	781	45	Biochim Biophys Acta	HCAPLUS
Ligon, P	1991	19	4553	Nucleic Acids Res	HCAPLUS
Linden, H	1994	24	369	Plant Mol Biol	HCAPLUS
Lowe, T	1997	25	955	Nucleic Acids Res	HCAPLUS
Matveyev, A	2001	29	1491	Nucl Acids Res	HCAPLUS
Mizuno, T	1996	3	407	DNA Res	HCAPLUS
Motallebi-Veshareh, M	1990	4	1455	Mol Microbiol	HCAPLUS
Muro-Pastor, A	1994	176	1093	J Bacteriol	HCAPLUS
Muro-Pastor, A	1997	268	589	J Mol Biol	HCAPLUS
Neer, E	1994	371	297	Nature	HCAPLUS
Padhy, R	1988	170	1934	J Bacteriol	HCAPLUS
Pietrovski, S	1996	12	287	Trends Genet	MEDLINE
Riley, M	1993	57	862	Microbiol Rev	HCAPLUS
Shizuya, H	1992	89	8794	Proc Natl Acad Sci	HCAPLUS
Simon, R	1978	136	414	J Bacteriol	HCAPLUS
van der Biezen, E	1998	8	226	Curr Biol	HCAPLUS
Vioque, A	1992	20	6331	Nucleic Acids Res	HCAPLUS
Watanabe, T	1998	1396	97	Biophys Acta	HCAPLUS
Watanabe, T	1997	416	302	FEBS Lett	HCAPLUS
Wolk, C	2000		83	Prokaryotic developm	HCAPLUS
Wolk, C	1994		769	The molecular biolog	HCAPLUS
Wu, H	1998	95	9226	Proc Natl Acad Sci	HCAPLUS
Xu, M	1990	250	1566	Science	HCAPLUS
Xu, X	1997	179	2884	J Bacteriol	HCAPLUS

L20 ANSWER 28 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:828435 HCAPLUS

DN 137:42609

TI Human nucleic acids and polypeptides and their diagnostic and therapeutic uses

IN Drmanac, Rodoje T.; Liu, Chenghua; Tang, Y. Tom

PA Hyseq, Inc., USA

SO PCT Int. Appl., 103 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 124

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO2001075067	A2	20011011	2001WO-XA08631	20010330 <--	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	WO2001075067	A2	20011011	2001WO-US08631	20010330 <--	
	WO2001075067	A3	20020404			
	WO2001075067	C2	20021031			
	WO2001075067	C1	20041014			
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW		
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
PRAI	2000US-0540217	A	20000331	<--		
	2000US-0649167	A	20000823	<--		
	2001WO-US08631	W	20010330	<--		
AB	The present invention provides 30,368 nucleic acids and the 30,368 novel human polypeptide sequences encoded by these nucleic acids. A plurality of novel nucleic acids are obtained from cDNA libraries prepared from various human tissues and in some cases isolated from a genomic library derived from human chromosomes using standard PCR, sequencing by hybridization signature anal., and Sanger sequencing techniques. Nearest neighbor results are identified by sequence homol. searching. The invention also relates to therapeutic, diagnostic, and research utilities for these polynucleotides and proteins. [This abstract record is one of 10 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]					
IT	437844-19-4					
	RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)					
	(amino acid sequence; human nucleic acids and polypeptides and their diagnostic and therapeutic uses)					
RN	437844-19-4 HCAPLUS					
CN	Protein (human clone WO0175067-SEQID-57487) (9CI) (CA INDEX NAME)					

SEQ 1 MRQDGKVARQ LLVIGEMVRQ RSAAGNKEGD KTPQPIPLTA QGSKPYQYHQ
51 EGTPI SAPKI KPVSI VGD KK QMDLSTVQKY ADGVATHNLD HASYHVEGDT
101 VPDMDPQWNY QRASQDLKCK NHMTEKVRNF KCERELAQGN STGFEMEGRS
151 GKDGLEYELSG PQLTARKEVP HSCNCKNLNM ADDLNQLLIK ATPFTISVSP
201 VRGSSCYISW FPDQRARAVC GRPPWRINAV AEHREGTGTW HLESGRLKLV
251 CVWCERGVLS RGDGTQVQTK PTPLGTMLKN FKKEFKGDYG VTMIPGKLRT
301 LCBIDWPFAFE GGNLAFLGDL KGCDELKNFQ ELINQSAIVH PQADVWWYCG
351 GPLLGTLPE

L20 ANSWER 29 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:818860 HCAPLUS
DN 136:80679
TI Complete genome sequence of Salmonella enterica serovar typhimurium LT2

AU McClelland, Michael; Sanderson, Kenneth E.; Spleth, John; Clifton, Sandra W.; Latreille, Phil; Courtley, Laura; Porwolilk, Steffen; All, Johar; Daute, Mike; Du, Felyu; Hou, Shunfang; Layman, Dan; Leonard, Shawn; Nguyen, Christine; Scott, Kelsi; Holmes, Andrea; Grewal, Neenu; Mulvaney, Elizabeth; Ryan, Ellen; Sun, Hul; Florea, Lillana; Miller, Webb; Stoneking, Tamberiy; Nhan, Michael; Waterston, Robert; Wilson, Richard K.

CS Sidney Kimmel Cancer Center, San Diego, CA, 92121, USA

SO Nature (London, United Kingdom) (2001), 413(6858), 852-856

CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB *Salmonella enterica* subspecies I, serovar typhimurium (*S. typhimurium*), is a leading cause of human gastroenteritis, and is used as a mouse model of human typhoid fever. The incidence of non-typhoid salmonellosis is increasing worldwide, causing millions of infections and many deaths in the human population each year. The 4857-kilobase (kb) chromosome and 94-kb virulence plasmid of *S. typhimurium* strain LT2 has now been sequenced. The distribution of close homologs of *S. typhimurium* LT2 genes in 8 related enterobacteria was determined using previously completed genomes of 3 related bacteria, sample sequencing of both *S. enterica* serovar paratyphi A (*S. paratyphi* A) and *Klebsiella pneumoniae*, and hybridization of 3 unsequenced genomes to a microarray of *S. typhimurium* LT2 genes. Lateral transfer of genes is frequent, with 11% of the *S. typhimurium* LT2 genes missing from *S. enterica* serovar Typhi (*S. typhi*), and 29% missing from *Escherichia coli* K12. The 352 gene homologs of *S. typhimurium* LT2 confined to subspecies I of *S. enterica* - containing most mammalian and bird pathogens - are useful for studies of epidemiol., host specificity, and pathogenesis. Most of these homologs were previously unknown, and 50 may be exported to the periplasm or outer membrane, rendering them accessible as therapeutic or vaccine targets. The sequences are available from the GenBank database under Accession Nos. AE006468 (chromosome) and AE006471 (pSTL).

IT 384930-08-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; complete genome sequence of *Salmonella enterica* serovar typhimurium LT2)

RN 384930-08-9 HCAPLUS

CN GDP-D-mannose dehydratase in colanic acid gene cluster (*Salmonella enterica* typhimurium strain LT2; SGSC 1412; ATCC 700720 gene gmd) (9CI) (CA INDEX NAME)

SEQ 1 MSKVALITGV TGQDGSYLAE FLLEKGYEVH GIKRRASSFN TERVDHIYQD
 51 PHSCNPKFHL HYGDLTDASN LTRILQEVQP DEVYNLGAMS HVAVSFESPE
 101 YTADVDMGT LRLLEAIRFL GLEKKTRFYQ ASTSELYGLV QEIPQKETTP
 151 FYPRSPYAVA KLYAYWITVN YRESYGIYAC NGILFNHESP RRGETFVTRK
 201 ITRAIANIAQ GLESCLYLGN MDSL RDWGA KDVVRMQWMM LQQEQPEDFV
 251 IATGVQYSVR QFVELAAAQL GIKLRFEGEG INEKGIVVSV TGHDPAGVKP
 301 GDVIVAVDPR YFRPAEVETL LGDPSKAHEK LGWKPEITLS EMVSEMVAND
 351 LEAAKKHSL L KSHGYEVAIA LES

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Ahmer, B	1999	181	1364	J Bacteriol	HCAPLUS
Anon	1996			Cellular and Molecul	
Bermudes, D	2000	465	57	Adv Exp Med Biol	MEDLINE
Blanc-Potard, A	1999	181	998	J Bacteriol	HCAPLUS
Blattner, F	1997	277	1453	Science	HCAPLUS
Bumann, D	2000	27	357	FEMS Immunol Med Mic	HCAPLUS
Chalker, R	1988	10	111	Rev Infect Dis	MEDLINE

Cooke, E	1990	336	790	Lancet	MEDLINE
Decker, K	1999	32	777	Mol Microbiol	HCAPLUS
Figuerola-Bossi, N	2001	39	260	Mol Microbiol	HCAPLUS
Florea, L	2000	28	3486	Nucleic Acids Res	HCAPLUS
Gupta, S	1995	177	4207	J Bacteriol	HCAPLUS
Lan, R	1996	13	47	Mol Biol Evol	HCAPLUS
Liu, S	1993	175	4104	J Bacteriol	HCAPLUS
Liu, S	1996	93	10303	Proc Natl Acad Sci	HCAPLUS
Matsui, H	2001	183	4652	J Bacteriol	HCAPLUS
McClelland, M	2000	28	4974	Nucleic Acids Res	HCAPLUS
Nakai, K	1999	24	34	Trends Biochem Sci	HCAPLUS
Ochman, H	2000	405	299	Nature	HCAPLUS
Parkhill, J	2001	413	848	Nature	HCAPLUS
Perna, N	2001	409	529	Nature	HCAPLUS
Pizza, M	2000	287	1816	Science	HCAPLUS
Popoff, M	2000	151	893	Res Microbiol	HCAPLUS
Porwollik, S	2001	483	1	Mut Res	HCAPLUS
Reidl, J	1991	173	4862	J Bacteriol	HCAPLUS
Selander, R	1996		2691	Cellular and Molecul	
Stanley, T	2000	182	4406	J Bacteriol	HCAPLUS
Tatusov, R	2001	29	22	Nucleic Acids Res	HCAPLUS
Todd, E	1990	336	788	Lancet	MEDLINE
Townsend, S	2001	69	2894	Infect Immun	HCAPLUS

L20 ANSWER 30 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:818857 HCAPLUS

DN 136:15814

TI Complete genome sequence of a multiple drug resistant *Salmonella enterica* serovar typhi CT18

AU Parkhill, J.; Dougan, G.; James, K. D.; Thomson, N. R.; Pickard, D.; Wain, J.; Churcher, C.; Mungall, K. L.; Bentley, S. D.; Holden, M. T. G.; Sebahia, M.; Baker, S.; Basham, D.; Brooks, K.; Chillingworth, T.; Connerton, P.; Cronin, A.; Davis, P.; Davies, R. M.; Dowd, L.; White, N.; Farrar, J.; Feltwell, T.; Hamlin, N.; Haque, A.; Hien, T. T.; Holroyd, S.; Jagels, K.; Krogh, A.; Larsen, T. S.; Leather, S.; Moule, S.; O'Gaora, P.; Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell, B. G.

CS The Sanger Centre, Wellcome Trust Genome Campus, Cambridge, CBIO ISA, UK

SO Nature (London, United Kingdom) (2001), 413(6858), 848-852

CODEN: NATUAS; ISSN: 0028-0836

PB Nature Publishing Group

DT Journal

LA English

AB *Salmonella enterica* serovar typhi (*S. typhi*) is the etiol. agent of typhoid fever, a serious invasive bacterial disease of humans with an annual global burden of approx. 16 million cases, leading to 600,000 fatalities. Many *S. enterica* serovars actively invade the mucosal surface of the intestine but are normally contained in healthy individuals by the local immune defense mechanisms. However, *S. typhi* has evolved the ability to spread to the deeper tissues of humans, including liver, spleen, and bone marrow. The 4,809,037-bp genome was sequenced for a *S. typhi* (CT18) that is resistant to multiple drugs, revealing the presence of hundreds of insertions and deletions compared with the *Escherichia coli* genome, ranging in size from single genes to large islands. Notably, the genome sequence identifies >200 pseudogenes, several corresponding to genes that are known to contribute to virulence in *Salmonella typhimurium*. This genetic degradation may contribute to the human-restricted host range for *S. typhi*. CT18 harbors a 218,150-bp multiple-drug-resistance IncH1 plasmid (pHCM1), and a 106,516-bp cryptic plasmid (pHCM2), which shows recent common ancestry with a virulence plasmid of *Yersinia pestis*.

IT 372050-75-4

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; complete genome sequence of a multiple drug resistant *Salmonella enterica* serovar typhi CT18)

RN 372050-75-4 HCAPLUS

CN GDP-mannose 4,6-dehydratase (Salmonella enterica typhi strain CT18 gene
STY2321) (9CI) (CA INDEX NAME)

SEQ 1 MSKVALITGV TGQDGSYLAE FLLEKGYEVH GIKRRASSFN TERVDHIYQD
51 PHSCNPKFHL HYGDLTDASN LTRILQEVQP DEVYNLGAMS HVAVSFESPE
101 YTADVDMGT LRLLEAIRFL GLEKKTRFYQ ASTSELYGLV QEIPQKETTP
151 FYPRSPYAVA KLYAYWITVN YRESYGIYAC NGILFNHESP RRGETFVTRK
201 ITRAANIAQ GLESCLYLGN MDSL RDWGH KDVVRMQWMM LQQEQPEDFV
251 IATGVQYSVR QFVELAAAQL GIKLRFEGEG INEKGIVVSV TGHDPAGVKP
301 RDVIVAVDPC YFRPAEVETL LGDPSKAHEK LGWKPEITLS EMVSEMVAND
351 LEAAKKHSL L KSHGYEVAIA LES

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Bakshi, C	2000	182	2341	J Bacteriol	HCAPLUS
Blanc-Potard, A	1999	181	998	J Bacteriol	HCAPLUS
Blattner, F	1997	277	1453	Science	HCAPLUS
Doolittle, R	1996	271	470	Science	HCAPLUS
Hashimoto, Y	1993	175	4456	J Bacteriol	HCAPLUS
Hensel, M	1999	32	275	Mol Microbiol	HCAPLUS
Hu, P	1998	180	5192	J Bacteriol	HCAPLUS
Ivanhoff, B	1995	26	1	Southeast Asian J Tr	
Jing, D	1999	274	27287	J Biol Chem	HCAPLUS
Kingsley, R	2000	36	1006	Mol Microbiol	HCAPLUS
Marcus, S	2000	2	145	Microbes Infect	HCAPLUS
McClelland, M	2001	413	852	Nature	HCAPLUS
Miao, E	2000	97	7539	Proc Natl Acad Sci U	HCAPLUS
Mirolid, S	1999	96	9845	Proc Natl Acad Sci U	HCAPLUS
Neidhardt, F	1996			Escherichia coli and	
Parkhill, J	2000	404	502	Nature	HCAPLUS
Parry, C	1998	351	1289	Lancet	MEDLINE
Perna, N	2001	409	529	Nature	HCAPLUS
Perry, R	1997	10	35	Clin Microbiol Rev	HCAPLUS
Prentice, M	2001	183	2586	J Bacteriol	HCAPLUS
Reeves, M	1989	27	313	J Clin Microbiol	HCAPLUS
Rosenberg, S	1994	265	405	Science	HCAPLUS
Rutherford, K	2000	16	944	Bioinformatics	HCAPLUS
Sanderson, K	1998	19	569	Electrophoresis	HCAPLUS
Sherburne, C	2000	28	2177	Nucleic Acids Res	HCAPLUS
Townsend, S	2001	69	2894	Infect Immun	HCAPLUS
Tsolis, R	1999	67	6385	Infect Immun	HCAPLUS
Wain, J	1998	36	1683	J Clin Microbiol	MEDLINE
Wong, K	1998	66	3365	Infect Immun	HCAPLUS
Zhang, X	2000	68	3067	Infect Immun	HCAPLUS

L20 ANSWER 31 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:672668 HCAPLUS

DN 135:328136

TI Human reproductive tract-specific nucleic acids and their encoded proteins
and antibodies

IN Rosen, Craig A.; Barash, Steven C.; Ruben, Steven M.

PA Human Genome Sciences, Inc., USA

SO PCT Int. Appl., 1297 pp.

CODEN: PIXXD2

DT Patent

LA English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO2001055320 A2 200108022001WO-US01339 20010117

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR,
CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,

IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB,
GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR

PRAI US 2000-PV179065 20000131
US 2000-PV180628 20000204
US 2000-PV184664 20000224
US 2000-PV186350 20000302
US 2000-PV189874 20000316
US 2000-PV190076 20000317
US 2000-PV198123 20000418
US 2000-PV205515 20000519
US 2000-PV209467 20000607
US 2000-PV214886 20000628
US 2000-PV215135 20000630
US 2000-PV216647 20000707
US 2000-PV216880 20000707
US 2000-PV217487 20000711
US 2000-PV217496 20000711
US 2000-PV218290 20000714
US 2000-PV220963 20000726
US 2000-PV220964 20000726
US 2000-PV225757 20000814
US 2000-PV225270 20000814

AB The present invention relates to novel reproductive tract-related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "reproductive tract antigens", and the use of such reproductive tract antigens for detecting disorders of the reproductive tract, particularly the presence of reproductive tract cancer and reproductive tract cancer metastases. More specifically, 2650 isolated reproductive tract-associated cDNA mols. are provided encoding novel reproductive tract-associated polypeptides. Novel reproductive tract polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human reproductive tract associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosis, treatment, prophylaxis, and/or prognosis of disorders related to the reproductive tract, including reproductive tract cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compns. for inhibiting the production and function of the polypeptides of the present invention. [This abstract record is the second of three records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 367539-41-1P

RL: BOC (Biological occurrence); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(amino acid sequence; human reproductive tract-specific nucleic acids and their encoded proteins and antibodies)

RN 367539-41-1 HCAPLUS

CN Reproductive tract-specific antigen (human clone HEQBE71 fragment) (9CI)
(CA INDEX NAME)

SEQ 1 ILDPPEPLPSA RWDAHVLERN RSEEPGLGP SWLSGPQVMY SGLATNSGIL
51 GTPGTGWDCC PHSCNQIFX APCLCQTADR RDTVVTKTXL LLGKSPERVQ
101 GETATSPVRR RGTXDRF

L20 ANSWER 32 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2001:208901 HCAPLUS
 DN 134:217895
 TI Functional annotation of a full-length mouse cDNA collection
 AU Kawai, J.; Shinagawa, A.; Shibata, K.; Yoshino, M.; Itoh, M.; Ishii, Y.;
 Arakawa, T.; Hara, A.; Fukunishi, Y.; Konno, H.; Adachi, J.; Fukuda, S.;
 Aizawa, K.; Izawa, M.; Nishi, K.; Kiyosawa, H.; Kondo, S.; Yamanaka, I.;
 Saito, T.; Okazaki, Y.; Gojobori, T.; Bono, H.; Kasukawa, T.; Saito, R.;
 Kadota, K.; Matsuda, H.; Ashburner, M.; Batalov, S.; Casavant, T.;
 Fleischmann, W.; Gaasterland, T.; Gissi, C.; King, B.; Kochiwa, H.; Kuehl,
 P.; Lewis, S.; Matsuo, Y.; Nikaido, I.; Pesole, G.; Quackenbush, J.;
 Schriml, L. M.; Staubli, F.; Suzuki, R.; Tomita, M.; Wagner, L.; Washio,
 T.; Sakai, K.; Okido, T.; Furuno, M.; Aono, H.; Baldarelli, R.; Barsh, G.;
 Blake, J.; Boffelli, D.; Bojunga, N.; Carninci, P.; de Bonaldo, M. F.;
 Brownstein, M. J.; Bult, C.; Fletcher, C.; Fujita, M.; Gariboldi, M.;
 Gustincich, S.; Hill, D.; Hofmann, M.; Hume, D. A.; Kamiya, M.; Lee, N.
 H.; Lyons, P.; Marchionni, L.; Mashima, J.; Mazzarelli, J.; Mombaerts, P.;
 Nordone, P.; Ring, B.; Ringwald, M.; Rodriguez, I.; Sakamoto, N.; Sasaki,
 H.; Sato, K.; Schonbach, C.; Seya, T.; Shibata, Y.; Storch, K.-F.; Suzuki,
 H.; Toyo-oka, K.; Wang, K. H.; Weitz, C.; Whittaker, C.; Wilming, L.;
 Wynshaw-Boris, A.; Yoshida, K.; Hasegawa, Y.; Kawaji, H.; Kohtsuki, S.
 CS The RIKEN Genome Exploration Res. Group Phase II Team, Lab. Genome
 Exploration Res. Group, RIKEN Genomic Sciences Center (GSC), Yokohama
 Inst., Yokohama, Kanagawa, 230-0045, Japan; The FANTOM Consortium
 SO Nature (London) (2001), 409(6821), 685-690
 CODEN: NATUAS; ISSN: 0028-0836
 PB Nature Publishing Group
 DT Journal
 LA English
 AB The RIKEN Mouse Gene Encyclopaedia Project, a systematic approach to determining
 the full coding potential of the mouse genome, involves collection and
 sequencing of full-length cDNAs and phys. mapping of the corresponding
 genes to the mouse genome. An international functional annotation meeting
 (FANTOM) was organized to annotate the first 21,076 cDNAs to be analyzed
 in this project. This report describes the first RIKEN clone collection,
 which is one of the largest described for any organism. Anal. of these
 cDNAs extends known gene families and identifies new ones. The sequences
 are deposited into GenBank with Accession nos. AK002213-AK021412 and
 AK027261-AK027262. Information about these clones is available at RIKEN
 (<http://www.gsc.riken.go.jp/e/FANTOM/viewer/>) and Mouse Genome Informatics
 (<http://www.informatics.jax.org> and mirror sites). [This abstract record is
 the sixth of 7 records for this document necessitated by the large number of
 index entries required to fully index the document and publication system
 constraints.].
 IT 326053-89-8
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
 (Biological study)
 (amino acid sequence; functional annotation of a full-length mouse cDNA
 collection)
 RN 326053-89-8 HCAPLUS
 CN Protein (mouse strain C57BL/6J clone 1300017N15 818-amino acid) (9CI) (CA
 INDEX NAME)
 SEQ 1 MAEAPPVSGT FKFNTDAAEF IPQERKTSGL NCGTQRRLLDS SRIGRRNYSS
 51 SPPCHLPRHI PYEDISAVHQ HSYASGSKPK SPQGFQSSN KSLKNHGLQN
 101 QPWQKARNEK HQNRNKKAAQG LSEQTSDDTS LESVARSESG TNPRESHSPSE
 151 SEKEVVIADP RGAKPKKAAQ LTNYNVRGPK AKGRLRSEWG NRMSPKSEDE
 201 NTRPVAISHT DSSDASCRKP VVDPCVCRRN EQRRYPQKRP PWEVEGARPR
 251 PGRNPPKQES QRHINAGPKT NMSPIPKDNL RERPTKSACD TGNLAVVSKS
 301 SRRVNQEKTA VRRQDPQVLS PFPRGKQNHM LKNVETHTGS LIEQLTTEKY
 351 ECMVCCLELVQ VTAPVWSCQS CFHVFHLNCI KKWARSPASH ADGQSGWRCF
 401 ACQNVSAHVP NTYTFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS
 451 CNLLCHPGPC PPCPAFTTKT CECGRTRHTV RCGQPVSVHC SNACENILNC
 501 GQHHCAELCH GGQCQPCRII LNQCVCYCGST SRDVLCTGTDV GKSDGFGDFS

551 CLKICGKDLK CGSHTCSQVC HPQPCQPCPR LPHLVRYCPC GQTPLSQLLE
 601 HGSNARKTCM DPVPSGKVC GKPLACGSSD FIHTCEKLCH EGDCGPCSRT
 651 SVISCRCSFR TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICCV
 701 KEHKCPLICG RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY
 751 PPVPCGTRPP ECTQTCARIH ECDHPVYHSC HSEKCPPCT FLTQKWC
 801 HEELTIKKLW TFKETLDF

L20 ANSWER 33 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:166626 HCAPLUS

DN 134:363141

TI LEPS2, a phosphorus starvation-induced novel acid phosphatase from tomato
 AU Baldwin, James C.; Karthikeyan, Athikkattuvalasu S.; Raghothama,
 Kashchandra G.

CS Department of Horticulture and Landscape Architecture, Purdue University,
 West Lafayette, IN, 47907-1165, USA

SO Plant Physiology (2001), 125(2), 728-737

CODEN: PLPHAY; ISSN: 0032-0889

PB American Society of Plant Physiologists

DT Journal

LA English

AB Phosphate (Pi) is one of the least available plant nutrients found in the soil. A significant amount of phosphate is bound in organic forms in the rhizosphere. Phosphatases produced by plants and microbes are presumed to convert organic phosphorus into available Pi, which is absorbed by plants. In this study we describe the isolation and characterization of a novel tomato (*Lycopersicon esculentum*) phosphate starvation-induced gene (LePS2) representing an acid phosphatase. LePS2 is a member of a small gene family in tomato. The cDNA is 942 bp long and contains an open reading frame encoding a 269-amino acid polypeptide. The amino acid sequence of LePS2 has a significant similarity with a phosphatase from chicken. Distinct regions of the peptide also share significant identity with the members of HAD and DDDD super families of phosphohydrolases. Many plant homologs of LePS2 are found in the databases. The LePS2 transcripts are induced rapidly in tomato plant and cell culture in the absence of Pi. However, the induction is repressible in the presence of Pi. Divided root studies indicate that internal Pi levels regulate the expression of LePS2. The enhanced expression of LePS2 is a specific response to Pi starvation, and it is not affected by starvation of other nutrients or abiotic stresses. The bacterially (*Escherichia coli*) expressed protein exhibits phosphatase activity against the synthetic substrate p-nitrophenyl phosphate. The pH optimum of the enzyme activity suggests that LePS2 is an acid phosphatase.

IT 340053-32-9P, Phosphatase, acid (tomato gene LePS2)

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process)

(amino acid sequence; cloning, sequence and expression of LEPS2, a phosphorus starvation-induced novel acid phosphatase from tomato)

RN 340053-32-9 HCAPLUS

CN Phosphatase, acid (tomato gene LePS2) (9CI) (CA INDEX NAME)

SEQ 1 MAGIVVVVDF DKTIIEVDSD NWVVDELGAT DLFNQLLPTM PWNSLMDRMM
 51 KELHTQGKTI QDIEEVLKRV PIHPRIVPAI KSAHALGCDL RVIDANVFF
 101 IETILKHLGI RDCFSEINTN PGYVDGEGRL RILPYVDFQK SPHSCNLCPP
 151 NMCKGMIVER IQAKEGKKRM IYLGDIGDF CPSLKLREAD FVMPRKDFPA
 201 WNLINKNRTL VKAGVHEWTN GKELEHILLQ WINTINIEES QLLSMENCKF
 251 QTKHNAAHGA LRPRLPPVY

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Altschul, S	1990	215	403	J Mol Biol	HCAPLUS
Aravind, L	1998	23	127	Trends Biochem Sci	HCAPLUS
Ascencio, J	1994	25	1553	Commun Soil Sci Plan	HCAPLUS
Baldwin, J	1999	99	S-190	Plant Physiol	
Barber, S	1980		591	Role of Phosphorus i	
Barret-Lennard, E	1982	33	682	J Exp Bot	
Bose, S	1998	250	629	Biochem Biophys Res	HCAPLUS
Bosse, D	1998	21	325	Plant Cell Environ	HCAPLUS
Boutin, J	1981	51	353	Physiol Plant	HCAPLUS
Bressan, R	1981	21	23	Plant Sci Lett	HCAPLUS
Collet, J	1998	273	14107	J Biol Chem	HCAPLUS
Dellaporta, S	1983	1	19	Plant Mol Biol Rep	HCAPLUS
Denecke, J	1990	2	51	Plant Cell	HCAPLUS
Drew, M	1984	160	500	Planta	HCAPLUS
Duff, S	1994	90	791	Physiol Plant	HCAPLUS
Duff, S	1989	90	1275	Plant Physiol	HCAPLUS
Goldstein, A	1988	87	711	Plant Physiol	HCAPLUS
Goldstein, A	1988	87	716	Plant Physiol	HCAPLUS
Houston, B	1999	1448	500	Biochem Biophys Acta	HCAPLUS
Hubel, F	1996	112	1429	Plant Physiol	
Jones, J	1982	5	1005	J Plant Physiol	
Jungk, A	1993	155/1	91	Plant Soil	
Lefebvre, D	1982	54	199	Physiol Plant	HCAPLUS
Lefebvre, D	1990	93	504	Physiol Plant	HCAPLUS
Li, M	1996	42	753	Soil Sci Plant Nutr	
Liu, C	1996	33	867	Plant Mol Biol	
Liu, C	1998	116	91	Plant Physiol	HCAPLUS
Muchhal, U	1996	93	10519	Proc Natl Acad Sci U	HCAPLUS
Muchhal, U	1999	96	5868	Proc Natl Acad Sci U	HCAPLUS
Ozawa, K	1995	41	461	Soil Sci Plant Nutr	HCAPLUS
Pan, S	1987	14	117	Aust J Plant Physiol	HCAPLUS
Pawlowski, K	1994		1	Plant Molecular Biol	
Plaxton, W	1999		349	Plant Responses to E	HCAPLUS
Raghothama, K	1999	50	665	Annu Rev Plant Physi	HCAPLUS
Raghothama, K	2000	3	182	Curr Opin Plant Biol	HCAPLUS
Richardson, A	1994		50	Soil Biota Managemen	
Sambrook, J	1989			Molecular Cloning: A	
Shimogawara, K	1995	36	341	Plant Cell Physiol	HCAPLUS
Sigma Diagnostics	1985			Phosphatase, alkanin	
Thaller, M	1998	7	1651	Protein Sci	
Thompson, J	1997	24	4876	Nucleic Acids Res	
Todano, T	1994	9	521	Trans 15th World Con	
Trull, M	1998	206	544	Planta	HCAPLUS
Ueki, K	1971	24	506	Physiol Plant	
Wasaki, J	1999	45	439	Soil Sci Plant Nutr	HCAPLUS

L20 ANSWER 34 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:106057 HCAPLUS

DN 134:188987

TI Human expressed sequence tags and primers for synthesizing full-length cDNAs

IN Ota, Toshio; Isogai, Takao; Nishikawa, Tetsuo; Hayashi, Kohji; Saito, Kaoru; Yamamoto, Junichi; Ishii, Shizuko; Sugiyama, Tomoyasu; Wakamatsu, Ai; Nagai, Keiichi; Otsuki, Tetsuji

PA Helix Research Institute, Japan

SO Eur. Pat. Appl., 2527 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 12

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP---1074617	A2	20010207	2000EP-0116126	20000728 <--

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IE, SI, LT, LV, FI, RO

JP2002171977 A2 20020618 2000JP-0196309 20000626 <--
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL

JP2002191363 A2 20020709 2000JP-0280990 20000728 <--

PRAI 1999JP-0248036 A 19990729 <--
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2000WO-JP05065 W 20000728 <--

AB Primers for synthesizing full-length cDNAs and their use are provided.
The invention provides 5'-end sequences for 5602 partial cDNA sequences
(expressed sequence tags, ESTs) and 3'-end sequences for 4970 of these
clones. Furthermore, primers for synthesizing the full-length cDNA have
been provided to clarify the function of the protein encoded by the cDNA.
The full-length cDNA sequences of the present invention containing the
translation start site provides information useful for analyzing the
functions of the proteins. Tissue- and cell-specific expression patterns
are also provided. [This abstract record is one of 6 records for this
patent necessitated by the large number of index entries required to fully
index the document and publication system constraints.]

IT 327117-94-2, Protein (human clone PLACE1010310)
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(amino acid sequence; human expressed sequence tags and primers for
synthesizing full-length cDNAs)

RN 327117-94-2 HCAPLUS

CN Protein (human clone PLACE1010310) (9CI) (CA INDEX NAME)

SEQ 1 MSDSPAGSNP RTPESSGSGS GGGGKRPAPV AAVSLLPAD PLRQANRLPI
51 RVLKMLSAHT GHLLHPEYLQ PLSSTPVSPI ELDAKKSPLA LLAQTCSQIG
101 KPDP PPPSSKL NSVAAAANGL GAEKDPGRSA PGAASAAAAL KQLGDS PAED
151 KSSF KPYSKG SGGGDSRKDS GSSSVSSTSS SSSSSPGDKA GFRVPSAACP
201 PFP PHGAPVS ASSSSSSPGG SRGGSPHSD CKNGGGVGGG ELDDKDDQEPK
251 PSPEPAAVSR GGGGEPGAHG GAESGASGRK SEPPSALVGA GHVAPVSPYK
301 PGHSVFPLPP SSIQYHGSIV GAYAGYPSQF VPGLDPSKSG LVGGQLSGGL
351 GLPPGKPPSS SPLTGASPPS FLQGLCRDPY CLGGYHGASH LGGSSCSTCS
401 AHDPAGPSLK AGGYPLVYPG HPLQPAALSS SAAQAALPGH PLYTYGFMLQ
451 NEPLPHSCNW VAASGPCDKR FATSEELLSH LRHTALPGA EKLLAAYPGA
501 SGLGSA AAAA SCHLHL PPPAAPGSPG SLSLRNPHTL GLSRYHPYK
551 SHLSTAGGLA VPSLPTAGPY YSPYALYGQR LASASALGYQ

L20 ANSWER 35 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:824291 HCAPLUS

DN 134:21425

TI Protection of endogenous therapeutic peptides from peptidase activity
through conjugation to blood components

IN Bridon, Dominique P.; Ezrin, Alan M.; Milner, Peter G.; Holmes, Darren L.;
Thibaudeau, Karen

PA Conjuchem, Inc., Can.

SO PCT Int. Appl., 733 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 5

PATENT NO. KIND DATE APPLICATION NO. DATE

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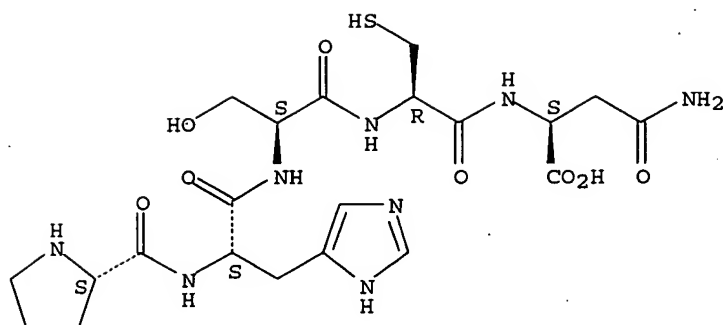
PI WO2000069900 A2 20001123 2000WO-US13576 20000517 <--
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MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
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CA---2505617 AA 20001123 2000CA-2505617 20000517 <--
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SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
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IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML,
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EP---1105409 A2 20010613 2000EP-0936023 20000517 <--
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IE, SI, LT, LV, FI, RO, CY
EP---1171582 A2 20020116 2000EP-0929748 20000517 <--
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IE, SI, LT, LV, FI, RO
EP---1264840 A1 20021211 2002EP-0014617 20000517 <--
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IE, SI, LT, LV, FI, RO, MK, CY, AL
JP2003500341 T2 20030107 2000JP-0619018 20000517 <--
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EP---1598365 A1 20051123 2005EP-0105387 20000517 <--
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IE, SI, LT, LV, FI, RO, MK, CY, AL
EP---1623994 A2 20060208 2005EP-0108328 20000517 <--
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IE, SI, LT, LV, FI, RO, MK, CY, AL
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US---6849714 B1 20050201 2000US-0623548 20000905 <--
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US2004127398 A1 20040701 2003US-0722733 20031125 <--
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	1999US-153406P	P	19990910	<--	
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	2000JP-0618316	A3	20000517	<--	
	2000JP-0618327	A3	20000517	<--	
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	2000US-0657276	A2	20000907	<--	
	2000US-0657332	A3	20000907	<--	
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	2002US-400413P	P	20020731	<--	
	2002US-0288340	A1	20021104	<--	
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	2003US-0471348	B1	20030908		
	2003US-0722733	A1	20031125		
	2005US-0040810	A2	20050121		
	2005US-0170967	A1	20050629		
AB	A method for protecting a peptide from peptidase activity in vivo, the peptide being composed of between 2 and 50 amino acids and having a C-terminus and an N-terminus and a C-terminus amino acid and an N-terminus amino acid is described. In the first step of the method, the peptide is modified by attaching a reactive group to the C-terminus amino acid, to the N-terminus amino acid, or to an amino acid located between the N-terminus and the C-terminus, such that the modified peptide is capable of forming a covalent bond in vivo with a reactive functionality on a blood component. The solid phase peptide synthesis of a number of derivs. with 3-maleimidopropionic acid (3-MPA) is described. In the next step, a covalent bond is formed between the reactive group and a reactive functionality on a blood component to form a peptide-blood component conjugate, thereby protecting said peptide from peptidase activity. The final step of the method involves the analyzing of the stability of the peptide-blood component conjugate to assess the protection of the peptide from peptidase activity. Thus, the percentage of a K5 kringle peptide (Pro-Arg-Lys-Leu-Tyr-Asp-Lys-NH ₂) conjugated to human serum albumin via MPA remained relatively constant through a 24-h plasma assay in contrast to unmodified K5 which decreased to 9% of the original amount of K5 in only 4 h in plasma.				
IT	252229-85-9				
	RL: PRP (Properties)				
	(unclaimed sequence; protection of endogenous therapeutic peptides from peptidase activity through conjugation to blood components)				
RN	252229-85-9 HCAPLUS				
CN	L-Asparagine, L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI) (CA INDEX NAME)				

SEQ 1 PHSCN

Absolute stereochemistry.



L20 ANSWER 36 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:660998 HCAPLUS

DN 134:217856

TI The colanic acid gene cluster of *Salmonella enterica* has a complex history

AU Stevenson, G.; Lan, R.; Reeves, P. R.

CS Department of Microbiology (G08), University of Sydney, Sydney, N.S.W., 2006, Australia

SO FEMS Microbiology Letters (2000), 191(1), 11-16

CODEN: FMLED7; ISSN: 0378-1097

PB Elsevier Science B.V.

DT Journal

LA English

AB The colanic acid gene cluster of *Salmonella enterica* LT2 was sequenced and compared with that of *Escherichia coli* K-12. The two clusters are similar with divergence slightly higher than average for genes of the two species. The cluster was divided into four blocks by GC content and seems likely to have transferred from a higher GC content species to the ancestor of *E. coli* and *S. enterica*. All 19 genes of K-12 and 13 genes of LT2 appear to have undergone random genetic drift with amelioration of the GC content. However, in the case of *S. enterica*, we believe that the six genes of the GDP-fucose pathway group were replaced relatively recently by genes closely related to those of the original donor species. Two repetitive elements were observed: a bacterial interspersed mosaic element in the intergenic region between *wzx* and *wcaK* in K-12 only and a RSA (repetitive sequence element) sequence between *wcaJ* and *wzx* in LT2 only.

IT 329379-69-3

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; colanic acid gene cluster of *Salmonella enterica* has a complex history)

RN 329379-69-3 HCAPLUS

CN Dehydratase, guanosine diphosphomannose 4,6- (*Salmonella typhimurium* strain LT2 gene *gmd*) (9CI) (CA INDEX NAME)

SEQ 1 MSKVALITGV TGQDGSYLAE FLLEKGYEVH GIKRRASSFN TERVDHIYQD
51 PHSCNPKFHL HYGDLTDASN LTRILQEVQP DEVYNLGAMS HVAVSFESPE
101 YTADV DAMGT LRLLEAIRFL GLEKKTRFYQ ASTSELYGLV QEIPQKETTP
151 FYPRSPYAVA KLYAYWITVN YRESYGIYAC NGILFNHESP RRGETFVTRK
201 ITRAIANIAQ GLESCLYLGN MDSLRDWGHA KDYVRMQWMM LQQEQPEDFV
251 IATGVQYSVR QFVELAAQQL GIKLRFEGEG INEKGIVVSV TGHDPAGVKP
301 GDVIVAVDPR YFRPAEVETL LGDPSKAHEK LGWKPEITLS EMVSEMVAND
351 LEAAKKHSL L KSHGYEVAIA LES

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
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Aoyama, K	1994	11	829	Mol Biol Evol	HCAPLUS
Bachellier, S	1996	2	2012	Escherichia and Salm	
Bachellier, S	1997	145	551	Genetics	HCAPLUS
Frick, D	1995	270	24086	J Biol Chem	HCAPLUS
Gleeson, T	1991	7	398	Comput Appl Biosci	MEDLINE
Hobbs, M	1994	12	855	Mol Microbiol	HCAPLUS
Jiang, X	1991	5	695	Mol Microbiol	HCAPLUS
Lawrence, J	1997	44	383	J Mol Evol	HCAPLUS
Lee, S	1992	138	1843	J Gen Microbiol	HCAPLUS
Marolda, C	1993	175	148	J Bacteriol	HCAPLUS
Reeves, P	1994	10	281	CABIOS	HCAPLUS
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Sharp, P	1987	4	222	Mol Biol Evol	HCAPLUS
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Stevenson, G	1991	227	173	Mol Gen Genet	HCAPLUS
Sueoka, N	1962	48	582	Proc Natl Acad Sci	HCAPLUS
Sueoka, N	1988	85	2653	Proc Natl Acad Sci	HCAPLUS
Wang, L	1998	66	3545	Infect Immun	HCAPLUS
Wang, L	1998	36	3182	J Clin Microbiol	HCAPLUS
Zhang, L	1997	23	63	Mol Microbiol	HCAPLUS

L20 ANSWER 37 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:102218 HCAPLUS

DN 132:245978

TI Anti-invasive, antitumorigenic, and antimetastatic activities of the PHSCN sequence in prostate carcinoma

AU Livant, Donna L.; Brabec, R. Kaye; Pienta, Kenneth J.; Allen, David L.; Kurachi, Kotoku; Markwart, Sonja; Upadhyaya, Ameet

CS Department of Cell and Development Biology, University of Michigan Medical School, Ann Arbor, MI; 48109-0616, USA

SO Cancer Research (2000), 60(2), 309-320

CODEN: CNREA8; ISSN: 0008-5472

PB AACR Subscription Office

DT Journal

LA English

AB Using naturally serum-free SU-ECM basement membranes as invasion substrates showed that plasma fibronectin was necessary to stimulate invasion by DU 145 human and metastatic MATLyLu (MLL) rat prostate carcinoma cells. This activity mapped to the PHSRN sequence, which induced invasion through $\alpha 5 \beta 1$ integrin. PHSCN, a competitive inhibitor, blocked both PHSRN- and serum-induced invasion. Acetylated, amidated PHSCN (Ac-PHSCN-NH₂) was 30-fold more potent; however, Ac-HSPNC-NH₂ was inactive. Rats receiving injections s.c. with 100,000 MLL cells were treated systemically by i.v. injection three times weekly with 1 mg of either Ac-PHSCN-NH₂ or Ac-HSPNC-NH₂ beginning 24 h later, three times weekly with 1 mg of Ac-PHSCN-NH₂ beginning only after surgery to remove large (2 cm) MLL tumors, or were left untreated. MLL tumors grew rapidly in Ac-HSPNC-NH₂-treated and in untreated rats. MLL tumor growth in rats treated with Ac-PHSCN-NH₂ beginning 1 day after MLL cell injection was reduced by 99.9% during the first 16 days of treatment, although subsequent tumor growth occurred. MLL tumor cryosections immunostained with anti-PECAM-1 showed that Ac-PHSCN-NH₂ inhibited neovascularization by 12-fold during this time. Whether initiated after MLL cell injection or only after MLL tumor removal, Ac-PHSCN-NH₂ treatment reduced the nos. of MLL lung colonies and micrometastases by 40- to > 100-fold, whereas Ac-HSPNC-NH₂ was inactive. Thus, Ac-PHSCN-NH₂ may be a potent antitumorigenic and antimetastatic agent for postsurgical use prior to extensive metastasis.

IT 262438-43-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anti-invasive, antitumorigenic, and antimetastatic activities of the PHSCN sequence in prostate carcinoma)

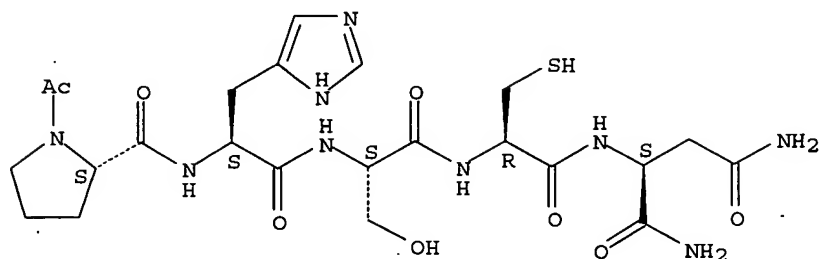
RN 262438-43-7 HCAPLUS

CN L-Aspartamide, 1-acetyl-L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI)
(CA INDEX NAME)

NTE modified

SEQ 1 PHSCN

Absolute stereochemistry.



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
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Akiyama, S	1985	260	4492	J Biol Chem	HCAPLUS
Amemiya, S	1989	31	131	Dev Growth Differ	
Aota, S	1994	269	24756	J Biol Chem	HCAPLUS
Atherton, E	1989			Solid Phase Peptide	
Burnette, W	1981	112	195	Anal Biochem	HCAPLUS
Carter, H	1988		1	A Multidisciplinary	
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de Souza, P	1997	75	1593	Br J Cancer	HCAPLUS
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Elstein, K	1994	211	322	Exp Cell Res	HCAPLUS
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Hayman, E	1982	82	803	Methods Enzymol	
Huhtala, P	1995	129	867	J Cell Biol	HCAPLUS
Humason, G	1972		34	Animal Tissue Techni	
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Isaacs, J	1986	9	261	Prostate	MEDLINE
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Johansson, S	1998	77	1213	Br J Cancer	HCAPLUS
Jungwirth, A	1997	75	1585	Br J Cancer	HCAPLUS
Kim, J	1998	94	353	Cell	HCAPLUS
Lafarga, M	1997	75	137	J Neurosci Methods	HCAPLUS
Litvinovich, S	1995	248	611	J Mol Biol	HCAPLUS
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Male, D	1995	84	453	Immunology	HCAPLUS
Mant, C	1997	289	426	Methods Enzymol	HCAPLUS
Mogford, J	1997	100	1647	J Clin Investig	HCAPLUS
Mosher, D	1984	35	561	Annu Rev Med	HCAPLUS
Mould, A	1997	272	17283	J Biol Chem	HCAPLUS
Newman, P	1997	100	S25	J Clin Invest	
Peehl, D	1992		159	Culture of Epithelia	
Pienta, K	1995	87	348	J Natl Cancer Inst	HCAPLUS
Pienta, K	1992	20	233	Prostate	HCAPLUS
Pinski, J	1994	54	169	Cancer Res	HCAPLUS
Pinski, J	1993	23	165	Prostate	HCAPLUS

Postlethwaite, A	1976	144	1188	J Exp Med	HCAPLUS
Postlethwaite, A	1981	153	494	J Exp Med	HCAPLUS
Raghaven, D	1988	15	371	Semin Oncol	
Reed, G	1986		313	Manganese in Metabol	HCAPLUS
Roklin, O	1995	26	205	Prostate	
Rossino, P	1990	189	100	Exp Cell Res	HCAPLUS
Saiki, I	1990	81	660	Jpn J Cancer Res	HCAPLUS
Schulze, H	1987	243A	1	Prostate Cancer Part	MEDLINE
Silverberg, E	1988	38	107	CA Cancer J Clin	
Srialovic, G	1990	127	3052	Endocrinology	
Stone, K	1978	21	274	Int J Cancer	MEDLINE
Templeton, N	1990	50	5431	Cancer Res	HCAPLUS
Tomaselli, K	1988	107	1241	J Cell Biol	HCAPLUS
Von Eschenbach, A	1997	47	261	CA Cancer J Clin	MEDLINE
Vukanovic, J	1995	55	1499	Cancer Res	HCAPLUS
Wayner, E	1988	107	1881	J Cell Biol	HCAPLUS
Wiltbank, M	1990	42	139	Biol Reprod	MEDLINE
Witkowski, C	1993	119	637	Cancer Res Clin Onco	HCAPLUS
Zar, J	1984		138	Biostatistical Analy	

L20 ANSWER 38 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:9190 HCAPLUS

DN 132:103595

TI Sequence and analysis of chromosome 4 of the plant *Arabidopsis thaliana*

AU Mayer, K.; Schuller, C.; Wambutt, R.; Murphy, G.; Volckaert, G.; Pohl, T.; Dusterhoft, A.; Stiekema, W.; Entlan, K.-D.; Terryn, N.; Harris, B.; Ansoorge, W.; Brandt, P.; Grivell, L.; Rieger, M.; Weichselgartner, M.; De Simone, V.; Obermaier, B.; Mache, R.; Muller, M.; Kreis, M.; Delseny, M.; Pulgdomenech, P.; Watson, M.; Schmidtheini, T.; Reichert, B.; Portatelle, D.; Perez-Alonso, M.; Boutry, M.; Bancroft, I.; Vos, P.; Hoheisel, J.; Zimmermann, W.; Wedler, H.; Ridley, P.; Langham, S.-A.; McCullagh, B.; Bilham, L.; Robben, J.; Van Der Schueren, J.; Grymonprez, B.; Chuang, Y.-J.; Vandenbussche, F.; Braeken, M.; Weltjens, I.; Voet, M.; Bastiaens, I.; Aert, R.; Defoor, E.; Weitzenegger, T.; Bothe, G.; Ramsperger, U.; Hilbert, H.; Braun, M.; Holzer, E.; Brandt, A.; Peters, S.; Van Staveren, M.; Dirkse, W.; Mooijman, P.; Klein Lankhorst, R.; Rose, M.; Haut, J.; Kotter, P.; Berneiser, S.; Hempel, S.; Feldpausch, M.; Lamberth, S.; Van Den Daele, H.; De Keyser, A.; Buysschaert, C.; Gielén, J.; Villarroel, R.; De Clercq, R.; Van Montagu, M.; Rogers, J.; Cronin, A.; Quail, M.; Bray-Allen, S.; Clark, L.; Doggett, J.; Hall, S.; Kay, M.; Lennard, N.; McLay, K.; Mayes, R.; Pettett, A.; Rajandream, M.-A.; Lyne, M.; Benes, V.; Rechmann, S.; Borkova, D.; Blocker, H.; Scharfe, M.; Grimm, M.; Lohnert, T.-H.; Dose, S.; De Haan, M.; Maarse, A.; Schafer, M.; Muller-Auer, S.; Gabel, C.; Fuchs, M.; Fartmann, B.; Granderath, K.; Dauner, D.; Herzl, A.; Neumann, S.; Argiriou, A.; Vitale, D.; Liguori, R.; Piravandi, E.; Massenot, O.; Quigley, F.; Clabaud, G.; Mundlein, A.; Felber, R.; Schnabl, S.; Hiller, R.; Schmidt, W.; Lecharny, A.; Aubourg, S.; Chefedor, F.; Cooke, R.; Berger, C.; Montfort, M.; Casacuberta, E.; Gibbons, T.; Weber, N.; Vandenbol, M.; Bagues, M.; Terol, J.; Torres, A.; Perez-Perez, A.; Purnelle, B.; Bent, E.; Johnson, S.; Tacon, D.; Jesse, T.; Heijnen, L.; Schwarz, S.; Scholler, P.; Heber, S.; Francs, P.; Bielke, C.; Frishman, D.; Haase, D.; Lemcke, K.; Mewes, H. W.; Stocker, S.; Zaccaria, P.; Bevan, M.; Wilson, R. K.; De La Bastide, M.; Habermann, K.; Parnell, L.; Dedhia, N.; Gnoj, L.; Schutz, K.; Huang, E.; Spiegel, L.; Sehkoni, M.; Murray, J.; Sheet, P.; Cordes, M.; Abu-Threideh, J.; Stoneking, T.; Kalicki, J.; Graves, T.; Harmon, G.; Edwards, J.; Latrelle, P.; Courtney, L.; Cloud, J.; Abbott, A.; Scott, K.; Johnson, D.; Minx, P.; Bentley, D.; Fulton, B.; Miller, N.; Greco, T.; Kemp, K.; Kramer, J.; Fulton, L.; Mardis, E.; Dante, M.; Pepin, K.; Hillier, L.; Nelson, J.; Spieth, J.; Ryan, E.; Andrews, S.; Geisel, C.; Layman, D.; Du, H.; Ali, J.; Berghoff, A.; Jones, K.; Drone, K.; Cotton, N.; Joshi, C.; Antonoiu, B.; Zidanic, M.; Strong, C.; Sun, H.; Lamar, B.; Yordan, C.; Ma, P.; Zhong, J.; Preston, R.; Vil, D.; Shekher, M.; Matero, A.; Shah, R.; Swaby, I'K.; O'Shaughnessy, A.; Rodriguez, M.; Hoffman, J.; Till, S.; Granat, S.; Shohdy, N.; Hasegawa, A.; Hameed, A.; Lodhi, M.; Johnson, A.; Chen, E.; Marra, M.; Martienssen, R.; McCombie, W. R.

CS GSF-Forschungszentrum f. Umwelt u. Gesundheit, Munich Information Center
for Protein Sequences am Max-Planck-Institut f. Biochemie, D-82152,
Germany

SO Nature (London) (1999), 402(6763), 769-777
CODEN: NATUAS; ISSN: 0028-0836

PB Macmillan Magazines

DT Journal

LA English

AB The higher plant *Arabidopsis thaliana* is an important model for
identifying plant genes and determining their function. To assist biol.
investigations and to define chromosome structure, a coordinated effort to
sequence the *Arabidopsis* genome was initiated in late 1996. This report
describes one of the first milestones of this project, the sequence of
chromosome 4. Anal. of 17.38 megabases of unique sequence, representing
about 17% of the genome, reveals 3744 protein coding genes, 81 tRNAs, and
numerous repeat elements. Heterochromatic regions surrounding the
putative centromere, which has not yet been completely sequenced, are
characterized by an increased frequency of a variety of repeats, new
repeats, reduced recombination, lowered gene d., and lowered gene
expression. Roughly 60% of the predicted protein-coding genes have been
functionally characterized on the basis of their homol. to known genes.
Many genes encode predicted proteins that are homologous to human and
Caenorhabditis elegans proteins.

IT 254859-87-5
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study)
(amino acid sequence; sequence and anal. of chromosome 4 of the plant
Arabidopsis thaliana)

RN 254859-87-5 HCAPLUS

CN Protein (*Arabidopsis thaliana* gene T16L4.40) (9CI) (CA INDEX NAME)

SEQ 1 MAKIVILFDF DRTLIDGSD NWVVTGLT EIFHQLRFTL PWNRLMDRMM
51 MELQSQGRSI DDIKSLCKM PIDSHIEAI KSAKSSGCDL KIVSDANQFF
101 IEKILEHHDL VDCFSEIYTN PTSLDDNGL RILPYHSDAL PPHSCNLCPS
151 NLCKGLVMDH LRASSSNDQI PRRFIYLG DGDFCPTLKL RECDFVMPRT
201 NYPLWKKISD NPLLIKAEVK EWSSABEQQR ILLQLVSTIT KEEDS

RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
-----	-----	-----	-----	-----	-----
Allshire, R	1995	9	218	Genes Dev	HCAPLUS
Altschul, S	1997	25	3389	Nucleic Acids Res	HCAPLUS
Bent, E	1998	13	849	Plant J	HCAPLUS
Bevan, M	1998	391	485	Nature	HCAPLUS
Borodovsky, M	1994	18	259	Comput Chem	HCAPLUS
Bowman, S	1999	400	532	Nature	HCAPLUS
Burge, C	1997	268	78	J Mol Biol	HCAPLUS
Choi, S	1995	2	17	Weeds World	HCAPLUS
Copenhaver, G	1996	9	259	Plant J	HCAPLUS
Copenhaver, G	1996	9	273	Plant J	HCAPLUS
Copenhaver, G	1998	95	247	Proc Natl Acad Sci U	HCAPLUS
Douglas, S	1998	8	655	Curr Opin Genet Dev	HCAPLUS
Emanuelsson, O	1999	8	978	Protein Sci	HCAPLUS
Fichant, G	1991	220	659	J Mol Biol	HCAPLUS
Fransz, P	1998	13	867	Plant J	HCAPLUS
Gamas, P	1996	9	233	Mol Plant Microbe In	HCAPLUS
Gardner, M	1998	282	1126	Science	HCAPLUS
Gerstein, M	1997	274	562	J Mol Biol	HCAPLUS
Grewal, S	1997	146	1221	Genetics	HCAPLUS
Hebsgaard, S	1996	24	3439	Nucleic Acids Res	HCAPLUS
Henning, K	1999	96	592	Proc Natl Acad Sci U	HCAPLUS
Hubbard, T	1999	27	254	Nucleic Acids Res	HCAPLUS

Jensen, R	1998	436	283	FEBS Lett	HCAPLUS
Joazeiro, C	1999	286	309	Science	HCAPLUS
Klein, P	1985	815	468	Biochim Biophys Acta	HCAPLUS
Kotani, H	1997	4	291	DNA Res	HCAPLUS
Lin, X	1999	402	761	Nature	MEDLINE
Lister, C	1993	4	745	Plant J	HCAPLUS
Lupas, A	1991	252	1162	Science	HCAPLUS
Marra, M	1999	22	265	Nature Genet	HCAPLUS
McAinsh, M	1998	3	32	Trends Plant Sci	
Meinke, D	1998	282	662	Science	HCAPLUS
Mewes, H	1997	387	7	Nature	
Mewes, H	1999	27	44	Nucleic Acids Res	HCAPLUS
Mizutani, M	1998	37	39	Plant Mol Biology	HCAPLUS
Moncrief, N	1991	30	522	J Mol Evol	
Mozo, T	1999	22	271	Nature Genet	HCAPLUS
Murphy, T	1995	82	599	Cell	HCAPLUS
Parniske, M	1997	9	821	Cell	
Pearson, W	1988	85	2444	Proc Natl Acad Sci	HCAPLUS
Richards, E	1988	53	127	Cell	HCAPLUS
Richards, E	1998	1	130	Curr Opin Plant Biol	MEDLINE
Richards, E	1991	19	3351	Nucleic Acids Res	HCAPLUS
Round, E	1997	7	1045	Genome Res	HCAPLUS
Schaffer, A				to be published in B	
The C elegans Sequencin	1999	282	2012	Science	
Uberbacher, E	1991	88	1261	Proc Natl Acad Sci	
Vos, P	1995	23	4407	Nucleic Acids Res	HCAPLUS
Wootton, J	1993	17	149	Comput Chem	HCAPLUS
Xu, X	1995	7	2151	Plant Cell	HCAPLUS

L20 ANSWER 39 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:794362 HCAPLUS

DN 132:30820

TI Anticancer compounds and methods

IN Livant, Donna L.

PA Regents of the University of Michigan, USA

SO U.S., 53 pp., Cont.-in-part of U. S. 5,840,514.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US---6001965	A	19991214	1997US-0915189	19970820	<--
	US---5840514	A	19981124	1996US-0754322	19961121	<--
	CA---2264570	AA	19980528	1997CA-2264570	19971120	<--
	WO---9822617	A1	19980528	1997WO-US21674	19971120	<--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW					
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
	EP----928340	A1	19990714	1997EP-0949632	19971120	<--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
	US---5989850	A	19991123	1998US-0140047	19980826	<--
	US---6472369	B1	20021029	1999US-0373694	19990813	<--
	AU---765126	B2	20030911	2001AU-0051984	20010618	<--
	US2003083264	A1	20030501	2002US-0237850	20020909	<--
	AU2003268832	A1	20040122	2003AU-0268832	20031211	<--
PRAI	1996US-0754322	A2	19961121	<--		
	1997US-0915189	A	19970820	<--		
	1997WO-US21674	W	19971120	<--		
	1999US-0373694	A3	19990813	<--		

2001AU-0051984 A3 20010618 <--

OS MARPAT 132:30820

AB The testing of tumor cells, including human tumors capable of metastases, in assays employing fibronectin-depleted substrates is described. Ex vivo induction of cells, including biopsied human cells, is performed with invasion-inducing agents. Addnl., anti-cancer chemotherapeutics are described. Specifically, chemotherapeutic agents which have anti-metastatic and anti-growth properties are described.

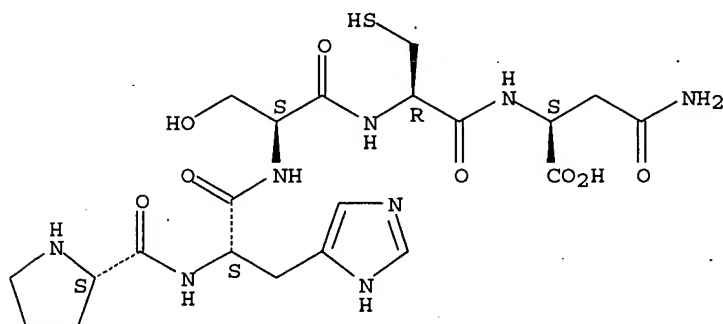
IT 252229-85-9
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (antitumor peptides and inhibition of metastasis)

RN 252229-85-9 HCAPLUS

CN L-Asparagine, L-prolyl-L-histidyl-L-seryl-L-cysteinyl- (9CI) (CA INDEX NAME)

SEQ 1 PHSCN

Absolute stereochemistry.



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
-----	-----	-----	-----	-----	-----
Anon	1995			WO---9524471	HCAPLUS
Anon	1996			WO---9612823	HCAPLUS
Aversa	1996			US---5576423	HCAPLUS
Bischoff	1996			US---5539085	HCAPLUS
Bohn	1984			US---4424279	HCAPLUS
Bresalier	1995	55	2476	Cancer Research	HCAPLUS
Burke	1992			US---5169862	HCAPLUS
Calabresi, P			1209	Goodman and Gilman T	
Doersen	1993			US---5264358	
Douillard	1981	II		Compendium of Immuno	
Eldred	1994	37	3882	J Med Chem	HCAPLUS
Gaeta	1996			US---5559103	HCAPLUS
Gartner, T		260	11891	The Journal of Biolo	HCAPLUS
Gerlach, J	1986	5	25	Cancer Surveys	MEDLINE
Ginsberg	1996			US---5523209	HCAPLUS
Ginsburg	1996			US---5492890	HCAPLUS
Goldie, J	1984	44	3643	Cancer Research	HCAPLUS
Hashino	1992			US---5136023	HCAPLUS
Isoai	1996			US---5548062	HCAPLUS
Kitaguchi	1995			US---5436221	HCAPLUS
Kohler, G	1976	6	511	European Journal of	MEDLINE
Kohler, G	1975	256	495	Nature	MEDLINE
Ku	1995	38	9	J Med Chem	HCAPLUS
Lipman, D	1985	227	1435	Science	HCAPLUS

Livant, D	1995	55	5085	Cancer Research	HCAPLUS
Lobl	1993			US---5192746	HCAPLUS
Mennen	1977			US---4018653	HCAPLUS
Nicholson, N	1995	62	567	Thrombosis Research	
Nomizu, M	1993	53	3459	Cancer Research	HCAPLUS
Pearson, W	1988	85	2444	Proc Natl Acad Sci (HCAPLUS
Reading, C	1982	53	261	Journal of Immunolog	MEDLINE
Saiki, I	1989	49	3815	Cancer Research	HCAPLUS
Schuurs	1977			US---4016043	HCAPLUS
Shashoua	1991			US---5051448	HCAPLUS
Stone, K	1978	21	274	Int J Cancer	MEDLINE
Wenger, R		73	1498	Blood	HCAPLUS

L20 ANSWER 40 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1996:386154 HCAPLUS

DN 125:56221

TI Cloned transcription factor regulating MHC expression

IN Ono, Santa Jeremy; Strominger, Jack L.

PA Johns Hopkins University, USA; President and Fellows of Harvard College

SO PCT Int. Appl., 92 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO---9612823	A1	19960502	1995WO-US12749	19951020 <--
	W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	US---5840832	A	19981124	1994US-0327832	19941021 <--
	AU---9538593	A1	19960515	1995AU-0038593	19951020 <--
	US---5908762	A	19990601	1997US-0828584	19970331 <--
PRAI	1994US-0327832	A	19941021	<--	
	1995WO-US12749	W	19951020	<--	

AB The present invention relates to NF-X1, a novel DNA binding protein which regulates expression of major histocompatibility complex (MHC) class II mols., and to DNA sequences which encode the protein as well as recombinant expression of the protein. NF-X1 is a newly identified, cysteine-rich polypeptide which interacts sequence-specifically with the conserved X1 box regulatory element found in the proximal promoters of class II MHC genes. A cysteine-rich domain within NF-X1 contains a motif repeated seven times, and this entire region is necessary and sufficient for both sequence specific binding and effector function. The motif is related to but distinct from the previously described metal-binding protein families: LIM domain and RING finger. NFX.1 mRNA is markedly overexpressed late after induction of cells with interferon-gamma, and this overexpression coincides with a reduction in the level of HLA-DRA transcript in these cells. Overexpression of this protein strongly and specifically represses the transcription of the HLA-DRA transcript in these cells. Overexpression of this protein strongly and specifically represses the transcription of the HLA-DRA transcript in these cells. Overexpression of this protein strongly and specifically represses the transcription of the HLA-DRA gene in MHC class II pos. cell lines, indicating that the NF-X1 protein is a transcriptional repressor of MHC class II mols. Demonstrated in examples were isolation of cDNA clones encoding NF-X1, primary structure anal. of NF-X1, genomic organization and transcription of NF-X1 gene, NF-X1 encodes a promiscuous X1 box binding protein, delineation of DNA-binding domain of NF-X1, and NF-X1 encodes a repressor of HLA-DRA transcription.

IT 158652-96-1

RL: BSU (Biological study, unclassified); PRP (Properties); THU

(Therapeutic use); BIOL (Biological study); USES (Uses)
 (cloning of transcription factor NF-X1 that regulates expression of
 antigen MHC class II and interleukin 4)

RN 158652-96-1 HCAPLUS
 CN RNA formation factor NF-X 1 (human clone NFX.1cDNA16 nuclear reduced)
 (9CI) (CA INDEX NAME)

SEQ 1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL
 51 LFISIVIIRQ EGKPKSQOTS FQSSPCNKSP KSHGLQNQPW QKLRNEKHHI
 101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA
 151 KPKKATQFVY SYGRGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL
 201 TLQRHPLEKE YWMGMEPDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA
 251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDQEKCT
 301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR
 351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP
 401 NTFSCFCGKV KNPWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC
 451 PPCPAFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH
 501 GGQCQPCQII LNQVCYCGST SRDVLGTDV GKSDGFGDFS CLKTCGKDLK
 551 CGNHTCSQVC HPQPCQCCPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM
 601 DVPVSCGKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR
 651 TKELPCTSLK SEDATFMDK RCNKKRLCGR HKCNEICVD KEHKCPLICG
 701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP
 751 ECTQTCARVH ECDHPVYHSC HSEKCPPCT FLTQKWCWGK HEFRSNIPCH
 801 LVDISCGLPC SATLPCGMHK CQRLCHKGEC LVDEPCQPC TTPRADCGHP
 851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM
 901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSALER KKRLAEAFHI
 951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN
 1001 SKKSHSFPPM NRDRRIIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV
 1051 CPPTTLTGVL EREMQRPPP PIPHHRHQSD KNPSSNLQK ITKEPIIDYF
 1101 DVQD

L20 ANSWER 41 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:115603 HCAPLUS

DN 122:125105

TI A novel cysteine-rich sequence-specific DNA-binding protein interacts with
 the conserved X-box motif of the human major histocompatibility complex
 class II genes via a repeated Cys-His domain and functions as a
 transcriptional repressor

AU Song, Zhimin; Krishna, Srikant; Thanos, Dimitris; Strominger, Jack L.;
 Ono, Santa Jeremy

CS Dep. Med., Johns Hopkins Univ. Sch. Med., Baltimore, MD, 21224, USA

SO Journal of Experimental Medicine (1994), 180(5), 1763-74

CODEN: JEMEA; ISSN: 0022-1007

DT Journal

LA English

AB The class I major histocompatibility complex (MHC) mols. function in the
 presentation of processed peptides to helper T cells. As most mammalian
 cells can endocytose and process foreign antigen, the critical determinant of
 an antigen-presenting cell is its ability to express class II MHC mols.
 Expression of these mols. is usually restricted to cells of the immune
 system and dysregulated expression is hypothesized to contribute to the
 pathogenesis of a severe combined immunodeficiency syndrome and certain
 autoimmune diseases. Human complementary DNA clones encoding a newly
 identified, cysteine-rich transcription factor, NF-X1, which binds to the
 conserved X-box motif of class II MHC genes, were obtained, and the
 primary amino acid sequence deduced. The major open reading frame encodes
 a polypeptide of 1,104 amino acids with a sym. organization. A central
 cysteine-rich portion encodes the DNA-binding domain, and is subdivided
 into seven repeated motifs. This motif is similar to but distinct from
 the LIM domain and the RING finger family, and is reminiscent of known
 metal-binding regions. The unique arrangement of cysteines indicates that
 the consensus sequence CX3CXLXCGX1-5HXCX3CHXGXC represents a novel

cysteine-rich motif. Two lines of evidence indicate that the polypeptide encodes a potent and biol. relevant repressor of HLA-DRA transcription: (a) overexpression of NF-X1 from a retroviral construct strongly decreases transcription from the HLA-DRA promoter; and (b) the NF-X1 transcript is markedly induced late after induction with interferon γ (IFN- γ), coinciding with postinduction attenuation of HLA-DRA transcription. The NF-X1 protein may therefore play an important role in regulating the duration of an inflammatory response by limiting the period in which class II MHC mols. are induced by IFN- γ .

IT 158652-96-1, RNA formation factor NF-X1 (human nuclear factor X1)
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)
 (amino acid sequence of; cysteine-rich DNA-binding protein interacts with conserved X-box motif of human major histocompatibility complex class II genes via repeated Cys-His domain and functions as transcriptional repressor)
 RN 158652-96-1 HCAPLUS
 CN RNA formation factor NF-X 1 (human clone NFX.1cDNA16 nuclear reduced) (9CI) (CA INDEX NAME)

```

SEQ      1 MEFSSICIEF KSTLRQEAPP PSRAAEPRSS CTVHHLPTVF PGRSLMMKSL
      51 LFIIVIIIRQ EGKPKSQOTS FQSSPCNKSP KSHGLQNQPW QKLRNEKHHI
     101 RVKKAQSLAE QTSDTAGLES STRSESGTDL REHSPSESEK EVVGADPRGA
     151 KPKKATQFVY SYGRGPKVKE KLKCEWSNRT TPKPEMLDPK VPNLWGFSTL
     201 TLQRHPLEKE YWMGMEPDDEM SREDTHRKGL PGKWRGPGHD QAEIHQNRRA
     251 TDIQTQDTET TWAPFQSDDL NERPAKSTCD SENLAVINKS SRRVDQEKCT
     301 VRRQDPQVVS PFSRGKQNHV LKNVETHTGS LIEQLTTEKY ECMVCCELVR
     351 VTAPVWSCQS CYHVFHLNCI KKWARSASQ ADGQSGWRCP ACQNVSAHVP
     401 NTFSCFCGKV KNPEWSRNEI PHSCGEVCRK KQPGQDCPHS CNLLCHPGPC
     451 PCPAPFMTKT CECGRTRHTV RCGQAVSVHC SNPCENILNC GQHQAELCH
     501 GGQCQCQCII LNQVCYCGST SRDVLCTGTV GKSDGFGDFS CLKTCGKDLK
     551 CGNHTCSQVC HPQPCQCQPR LPQLVRCCPC GQTPLSQLLE LGSSSRKTCM
     601 DPVPSGCKVC GKPLPCGSLD FIHTCEKLCH EGDCGPVSRT SVISCRCSFR
     651 TKELPCTSLK SEDATFMCDK RCNKKRLCGR HKCNEICVD KEHKCPLICG
     701 RKLRCGLHRC EEPCHRGNCQ TCWQASFDEL TCHCGASVIY PPVPCGTRPP
     751 ECTQTICARVH ECDHPVYHSC HSEKCPPCT FLTQKWCMDK HEFRSNIPCH
     801 LVDISGCLPC SATLPCGMHK CQRLCHKGEC LVDEPCKQPC TTPRADCGHP
     851 CMAPCHTSSP CPVTACKAKV ELQCECGRRK EMVICSEASS TYQRIAAISM
     901 ASKITDMQLG GSVEISKLIT KKEVHQARLE CDEECSEALER KKRLAEAFHI
     951 SEDSDPFNIR SSGSKFSDSL KEDARKDLKF VSDVEKEMET LVEAVNKGKN
    1001 SKKSHSFPPM NRDHRRRIHD LAQVYGLESV SYDSEPKRNV VVTAIRGKSV
    1051 CPPTTLTGVL EREMQRPPP PIPHHRHQSD KNPSSNLQK ITKEPIIDYF
    1101 DVQD
  
```

L20 ANSWER 42 OF 42 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1986:103366 HCAPLUS

DN 104:103366

TI Analysis of cloned cDNA and genomic sequences for phytochrome: complete amino acid sequences for two gene products expressed in etiolated Avena

AU Hershey, Howard P.; Barker, Richard F.; Idler, Kenneth B.; Lissemore, James L.; Quail, Peter H.

CS Dep. Bot., Univ. Wisconsin, Madison, WI, 53706, USA

SO Nucleic Acids Research (1985), 13(23), 8543-59

CODEN: NARHAD; ISSN: 0305-1048

DT Journal

LA English

AB Cloned cDNA and genomic sequences were analyzed to deduce the amino acid sequence of phytochrome of etiolated Avena. Restriction endonuclease site polymorphism between clones indicates that ≥ 4 phytochrome genes are expressed in this tissue. Sequence anal. of 2 complete and 1 partial coding region shows .apprx.98% homol. at both the nucleotide and amino

acid levels, with the majority of amino acid changes being conservative. High sequence homol. is also found in the 5'-untranslated region but significant divergence occurs in the 3'-untranslated region. The phytochrome polypeptides are 1128-amino acid residues long corresponding to a mol. mass of 125 kilodaltons. The known protein sequence at the chromophore attachment site occurs only once in the polypeptide, establishing that phytochrome has a single chromophore per monomer covalently linked to Cys-321. Computer analyses of the amino acid sequences have provided predictions regarding a number of structural features of the phytochrome mol.

IT 100469-69-0 100469-70-3

RL: PRP (Properties)
(amino acid sequence of)

RN 100469-69-0 HCAPLUS

CN Phytochrome (oat clone λ 2.4 subunit protein moiety reduced) (9CI)
(CA INDEX NAME)

```

SEQ      1 MSSSRPASSS SSRNRQSSRA RYLAQTTLDA ELWAEYEESG DSFDYSKLV
      51 AQRDGPVQV GRSEKVIAYL QHIGKGLIG TFFGCNLALD EKSFNVIAFS
     101 ENAPEMLTTV SNAVPSVDDP PRLGIGTNYR SLFSDQFATA LNKALGFADY
     151 SLLNPILVGC KTSKGPFFAI VHRATGCLVV DFEPYKPTEF PATAAGALQS
     201 YKLAAKAISK IGSLPGGSME VLCMTYYKEV FDLTGYDRVM AYKFMEDDMG
     251 FYFAEITKPG LPYLGLNYP A TDIPGAARFL FRKNKVRMIC DCRARSIKYI
     301 EAEALPFDIS LCGSALRAPH SCNLQYRENA NSIASLYRAY YMEMEEDDE
     351 AESEQPAQQQ QKKKLWELLV CNHESPRYP FPLRYACEFL AQVFAYHYHR
     401 EFELEKGLRE KSILKHQTRL SDMLFREASP LTIYSRAPHI MDEYKCDGAA
     451 LLTGGKYYGT PPPAPTFSQL HDIAFWLSDV NRDSYGLSYD SLHDAGYPGA
     501 SAGDAICGAA YAKINSKII FWFRSNTAAE IRWGGAKHDS SDADDSRRMH
     551 PRISFKAFLF YYKAKSLPVT DYEMDAINS LQLILRGTND ASKPKREASL
     601 DMQIGDLKLD GLAFLQAYTS EMVRLMFTAT VPILAVDGMG LVMGMMGKAA
     651 ELTGLRVDDA IGRHILTVE ESSYPVQRM LYLALQGKEE KEYRFEYKTH
     701 GPKRDDGPYI LYHACASRD LNDNYVGYCF YAGDATVNKL VADKFTRYEG
     751 DTKAIINPNP PLIPPIFGAD FFGNCSEWNA AMTKLTGWNR DEYLDERLLG
     801 EVFDSSNASC PLKNKNAFYS LCYLINSALA GEETEKAPFG FFPSGKTIEC
     851 LLSANRKEKE GGLITGYFCF INYASNELQN ALGYGQASEQ TSLKRLKAFS
     901 YRRHAINNPL ASGNLYSRKA LKNTPLWEEG NKQINYGDNC HNGINKILAD
     951 LDGDSISEKS SCLDLMAFF VFGDVVVA AV SGYLIICGK GIRISCHLPE
    1001 RFMKQSVYGD GVRLLGGILSD FLFISYKFSP VFFSVEISSK LTKMSIGENL
    1051 NLIDLELRIK NGGLGYPAEL MEGMFEDDMK EGSDEGLGLL VSRKLLRLRN
    1101 GDVRNLREAG VSTFLLTAE L ASAPTAIGQ

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RN 100469-70-3 HCAPLUS

CN Phytochrome (oat clone λ 8.2 subunit protein moiety reduced) (9CI)
(CA INDEX NAME)

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SEQ      1 MSSSRPASSS SSRNRQSSQA RVLAQTTLDA ELWAEYEESG DSFDYSKLYE
      51 AQRDGPVQV GRESEKYIAT LQNIQEGKL IGTFGCCLAL DEKSFNVIAF
     101 SENAPEMLTT VSNVPSVDD PRLGIGTNV RSLFSDQAT ALNKALGFAD
     151 YSLLNPILYQ CKTSGKPFTA IYNRATGCLV VDFEPVKPTE FATAAGALGS
     201 TKLAAKAISK LQSLPGGSME EYLCNTYYKE YFDLTGTDY MAYKFNEDDH
     251 GEYFSEITKP GLEPTLGLMY PATDIPQAR LLGMKNEYRR ICDCRARSIK
     301 YIEAELPFDI SLCGSALRPH SCNLQYMENN HSIASLYRAV VVHEMEEDDE
     351 AESEQPAQQQ KKKKLWGLLY CHHESPRYP FPLRYACEFL AQVFVHVNR
     401 EFELEKQLRE KNILKMQTAM LSDMLFREAS PLTIVSGTPN IMDEVKCDGA
     451 ALLYGKVMR LRMAPTESQI HDISFWLSDV HRDSTGLSTD SLHDAGYPGA
     501 AALGDMICGM AVAKIMSKDI LFWFRSHTAA EIRWGGAKND PSDMDDSRM
     551 HPRLSFKAF L FVVKMKS LPM SDYEMDAINS LQLILRGTN DASKPKREAS
     601 LDNGIGDLKL DGLAFLQAVT SEMVRLMETA TVPILAVDGN GLVNGVHQA
     651 AELTGLRVDD AIGRHILT L EDSSYPVYQ RLYLALQGKE FDEYRFEVKT
     701 HGPKRDDGPV ILVVNACASR DLNDHVVGVC GVCFVAVDMT VHKLVRDKFT
     751 RVEGDYKAII HMPHPLIPPI FGADEFGMCS EWNAAMTKLT GVMRDFVLDE
     801 ALLGEYGSSM ASCPLKHRDA FVSLCVLIHS ALAGEETEK A PFGFFDRSGK

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851 YIECLLSAHR KEMEGGLITG VFCEFINYASN ELGNALQVQQ ASEQTSKRL
 901 KAFSYARHAI HHPLSGRLYS RKALKMTDLN EEQRKQINYG DACMMGINKI
 951 LADLDGDSIT EKSSCLDLSM AEFLLDGYV AAYSQYLITC QGKGIRISCM
 1001 LPERFMKQSV YGDGVRLQQI LSFLFISVKF SPYGGSVES SKLTKMSIGE
 1051 NLNLIDLELR IKHQGLGVPA ELMAQMGEED MKEQSEEGLS LLYSRNLLRL
 1101 MNGDYRHLRE AGYSTFIITA ELASAPTAMG Q

=> d his

(FILE 'HOME' ENTERED AT 17:25:23 ON 26 APR 2006)

FILE 'HCAPLUS' ENTERED AT 17:25:32 ON 26 APR 2006

L1 3 US2005020810/PN OR (US2003-722843 OR US2002-429174# OR US2003-4
 E TERNANSKY B/AU
 L2 59 E5-8
 E ALLAN A/AU
 L3 36 E3,E11
 E ALLAN AMY/AU
 L4 6 E5
 E GLADSTONE P/AU
 L5 28 E3-7
 E PARRY G/AU
 L6 181 E3-14
 E PARRY GRAHAM/AU
 L7 43 E3-5
 E DONATE F/AU
 L8 28 E3-4,E6
 E MAZAR A/AU
 L9 79 E3-4,E7-9
 L10 23 ATTENUON/PA,CS

FILE 'REGISTRY' ENTERED AT 17:28:52 ON 26 APR 2006

FILE 'HCAPLUS' ENTERED AT 17:28:52 ON 26 APR 2006

L11 TRA L1 1- RN : 209 TERMS

FILE 'REGISTRY' ENTERED AT 17:28:52 ON 26 APR 2006

L12 209 SEA L11
 L13 100 L12 AND SQL/FA AND PROTEIN/FS
 L14 156 PHSCN/SQSP
 L15 81 L14 AND L13

FILE 'HCAPLUS' ENTERED AT 17:31:12 ON 26 APR 2006

L16 66 L14
 L17 3 L16 AND L1-10
 L18 63 L16 NOT L17
 L19 QUE PY<=2002 OR PRY<=2002 OR AY<=2002 OR PRD<=20021125 OR AD<=2
 L20 42 L18 AND L19

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